

LEATH & ROSS'S HOMŒOPATHIC MEDICINES.

KNOWN ALL OVER THE WORLD. IN GREAT DEMAND EVERYWHERE.

FOR TRADE OPINIONS ON OUR CASES SEE BELOW.

OUR

£5

Handsome and Attractive

CASE

(OPEN BACK OR FRONT)

Fitted complete with Tinctures and Pilules (to customers' own selection if required) to the Net value of £5, thus yielding a handsome profit without trouble or inconvenience.

When ordering, kindly say if the Case is required to open back or front.

DIMENSIONS—

Length, 19½ in.

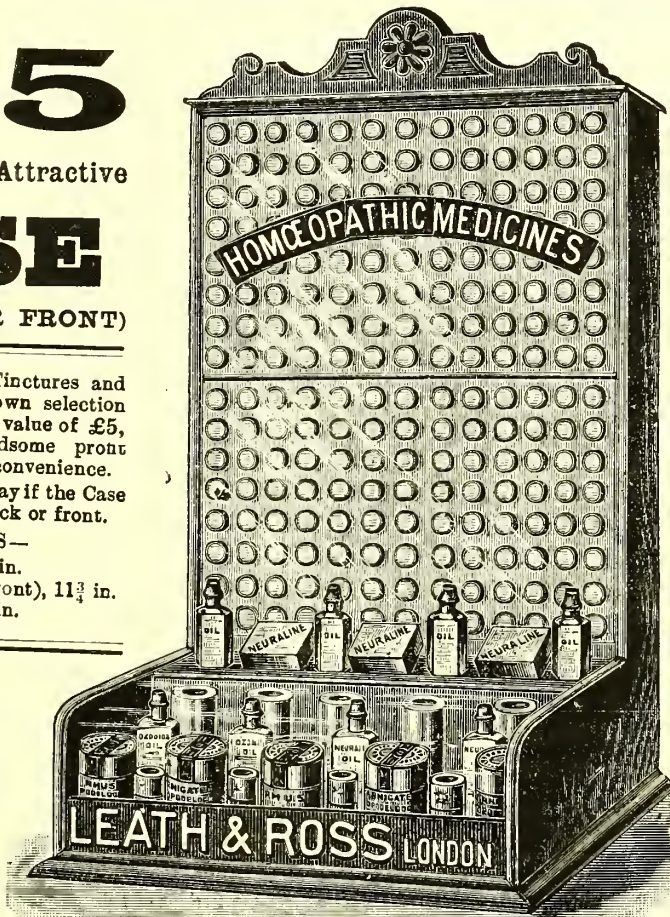
Width (from back to front), 11½ in.

Height, 32½ in.

NO CHARGE

Whatever for

THE CASE



OUR

TINCTURES, PILULES, AND CAMPHOR

Are in great demand everywhere, and can be had in any strength from the ϕ (mother), 1x: 1, and upwards.

1/-

Size

3/6

per
doz.
Cash

9d. size, 2/9,,

6d. size, 2/-,,

A smaller Case can also be had of the same pattern.

DIMENSIONS—

Length, 15½ in.

Width (from back to front), 11½ in.

Height, 28 in.

Price £3 3s.

Other Agents' Cases, upright or flat, at £3 3s., £4 4s., £6 6s., £10 10s., and £21. All the Cases can be had in Mahogany, Walnut, or other Fancy Wood to match Shop Fittings, and fitted with 6d. stock, 6d. and 1s. stock, 9d. and 1s. stock, or all 1s. stock, as preferred.

OPINIONS OF THE TRADE

ON OUR HANDSOME COUNTER SHOW-CASES.

T. H. writes, July 31, 1893:—"Many thanks for Case, which arrived safe. I like it very much, and it certainly gives a handsome appearance to my counter."

H. E. B. says:—"Your Case is a decided acquisition."

A. P. G. writes:—"I enclose cheque, £5, and am well pleased with Case and Contents."

LEATH & ROSS, Wholesale and Export Homœopathic Chemists,

9 VERE ST., OXFORD ST., W. (WHOLESALE DEPARTMENT)

AND 5 ST. PAUL'S CHURCHYARD, E.C.

LONDON.

‡ Head-Quarters for Sponges. ‡

CRESSWELL BROTHERS

✠ ✠ ✠ **AND SCHMITZ,**

Sponge Importers & Merchants

1 & 2 Red Lion Square.

LONDON, W.C.

*The only firm with its own establishments on the
Sponge Fisheries.*

THE SUMMER OF 1893,

A RECORD FOR FINE WEATHER,
ALSO FOR DEMAND FOR SPONGES

HAVE YOU SUFFICIENT SPONGES IN STOCK?

Look after your stock. See that it is well kept up and rightly assorted.

DO NOT DELAY PURCHASING.

C. B. & S. offer the best value and finest selection in all varieties, both in original cases and in divided parcels.

We have secured this season the finest and most important Parcels we have ever received. These goods are collected by our specially-chartered steamers, and sorted and packed at our own establishment at Aegina (Greece). The value of our goods is the BEST IN THE MARKET, and the various qualities quoted below are well adapted for sale by Chemists. There is a saving in buying Original Cases as packed at the Fisheries by us.

MEDIUM BATH and TOILET, 1st quality, 50 pieces.	} unbleached	£8 15 0
average 3s. 6d.		
BATH, 2nd quality, 24 pieces, average 4s. 6d.	} Honey comb.	5 8 0
" 2nd " 24 " " 3s. 0d.		3 12 0
" 1st " 24 " " 5s. 6d.		6 12 0
Cut Stable, 85 pieces, average 1s. 4d., for		5 12 6
" 60 " 1s.		3 0 0
TOILET, Good quality, 86 pieces, average 2s. 6d.	} Honey comb.	8 5 0
" " " 100 " " 1s. 6d.		7 10 0
" " " 112 " " 1s. 0d.		5 12 0
" " " 212 " " 6d.		5 6 0

SPECIAL BIN CASES.

S. C. 1.	Cuban Pine	150 at 2d., 125 at 4d., 90 at 8d.
" 2.	" Wool Toilet	100 at 3d., 150 at 6d., 25 at 1s.
" 3.	" Grass	150 at 2d., 150 at 4d., 50 at 6d.
" 8.	" Mediterranean Hneyemb.	150 at 2d., 150 at 4d., 50 at 6d.
" 9.	"	100 at 3d., 105 at 6d., 50 at 9d.
" 10.	"	100 at 6d., 40 at 9d., 20 at 1s.
" 11.	"	40 at 1s., 20 at 1s. 6d., 15 at 2s.
" 12.	"	15 at 2s., 16 at 2s. 6d., 10 at 3s.

State whether Bleached or Unbleached are required for Nos. 6 to 10.
Nos. 1 to 3 only supplied Bleached.

Per case £5.

State whether Bleached or Unbleached are required for Nos. 6 to 10.
Nos. 1 to 3 only supplied Bleached.

For full particulars of all other kinds of Sponges see CRESSWELL BROTHERS & SCHMITZ'S New Illustrated Price List, post free on application.

CARDED SPONGES.

ENTIRELY NEW STYLE OF CARD.

MOST ATTRACTIVE IN APPEARANCE.

LARGEST SPONGES IN THE MARKET.

HONEYCOMB OR TURKEY.

1d. size 6/-, 12 on card; 2d. size 12/-, 12 on card; 3d. size 18/-, 12 on card; 4d. size 24/-, 12 on card, at per gross of sponges.

6d. size 3/- per doz., 6 on card; 1s. size 6/- per doz., 6 on card, and upwards, all at half retail prices.

CRESSWELL BROS. & SCHMITZ

are the only firm which brings the consumer into contact with the source of supply, and thus saves the intermediate profits which purchasers from other houses have to pay for.

Every Facility given for comparing Value and Quality of Goods.

SPONGES IN SMALL PACKAGES.

*Fine TURKEY, Fine EGYPTIAN and HONEYCOMB,
1st, 2nd and 3rd Qualities.*

BLEACHED or UNBLEACHED. (State which in ordering.) On Strings of 1 dozen pieces, or loose in Bags.
At per dozen.

3/- 4/- 6/- 9/- 12/- 15/- 18/- 24/- 30/- 36/- 42/- 48/-
54/- 60/- 66/- 72/-

BLEACHED CUBAN on Strings of 12 pieces, or loose in Bags.

At per string cr dozen.

Honeycomb, No. 1 ..	2/-	3/-	4/-	6/-	9/-	12/-
„ No. 2 ..	2/-	3/-	4/-	6/-	9/-	12/-
Cuban Yellow ..	2/-	3/-	4/-	6/-	9/-	12/-
„ Fine ..	2/-	3/-	4/-	6/-	9/-	12/-

A FULL LINE OF CHAMOIS LEATHERS AND LOOFAHS AT SPECIALLY LOW PRICES.

2½ PER CENT, DISCOUNT FOR PROMPT CASH ; NET, THREE MONTHS.

CRESSWELL BROS. & SCHMITZ, Sponge Importers, Exporters,
and Merchants, 1 & 2 Red Lion Sq., London, W.C.



PREMIER "VINOLIA" SOAP.

For the Household.

	Retail each.	Per doz.
Per Box of 3 Tablets	1/-	9/2
12 "	4/-	36/7
36 "	12/-	110/-



FLORAL "VINOLIA" SOAP.

For General Private Use.

	Retail each.	Per doz.
Per Tablet in carton	-/5	4/7
Per Box of 3 Tablets	1/6	13/9



BALSAMIC "VINOLIA" SOAP.

For the Bath & Skin Troubles.

	Retail each.	Per doz.
Per Box of 3 Tablets	2/-	18/4



TOILET "VINOLIA" SOAP.

For the Toilet, and Nursery.

	Retail each.	Per doz.
Per Box of 3 Tablets	2/6	22/10



VESTAL "VINOLIA" SOAP.

This is supreme.

	Retail each.	Per doz.
Per Box of 3 Tablets	7/6	68/6



TEREBENE "VINOLIA" SOAP.

Guaranteed Pure.

	Retail each.	Per doz.
Per Box of 3 Tablets	1/-	9/-

"VINOLIA" PRICE LIST



CARBOLIC

"VINOLIA"

SOAP.

Guaranteed Pure.

	Retail each.	Per doz.
Per Box of 3 Tablets	1/-	9/-



SULPHUR

"VINOLIA"

SOAP.

Guaranteed Pure.

	Retail each.	Per doz.
Per Box of 3 Tablets	1/-	9/-



"VINOLIA" SHAVING STICKS.

TOILET.
Retail each, 1/-, 1/6, 2/6.
Per doz., 9/2, 13/8, 22/10.

VESTAL.
Retail ea., 2/6.
Per doz., 22/10.

"VINOLIA" SHAVING FOAM.

TOILET.
Retail each, 1/-, 1/6.
Per doz., 9/2, 13/8.

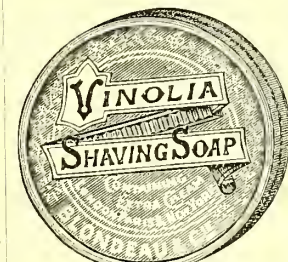
VESTAL.
Retail ea., 2/6.
Per doz., 22/10.

"VINOLIA" SHAVING SOAP.

(Flat Cakes).
Delightfully perfumed.
TOILET.

Retail ea., 2/-
Per doz., 18/4.

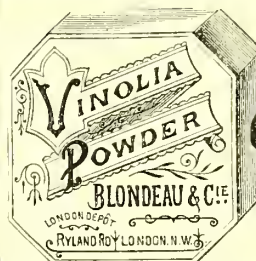
VESTAL.
Retail ea., 4/6.
Per doz., 41/6.



"VINOLIA"

For Itching,
Sunburn,
Insect Bites,
&c.

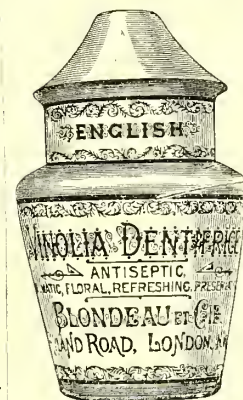
	Retail each.	Per doz.
Half size 1/14	10/8	
Small 1/9	16/9	
Medium 3/6	33/4	
Large 6/-	57/8	



"VINOLIA" POWDER.

For Redness,
Roughness, &c.

	Retail each doz.
Half size, 1/-	9/2
Small, 1/9	13/4
Medium, 3/6	32/-
Large, 6/-	54/9



"VINOLIA" DENTIFRICE.

Contains no
Salicylic or
Mineral Acids or
Bleaching Corro-
sive Alkalies.

	Retail each doz.
English, 2/6	23/10
American, 1/6	13/9
No. 2 (in metal box) 6/4	4/-
ditto	1/- 8/-



"VINOLIA" POMADE.

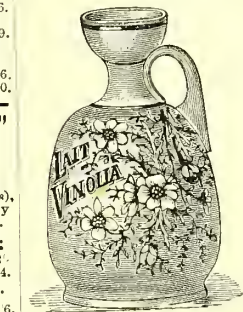
Natural to the Hair.

	Retail each.	Per doz.
5/6	50/4	



"VINOLIA" BRILLIANTINE.

	Retail each.	Per doz.
1/-, 2/-, 3/6	8/-, 16/-, 26/-	



"LAIT VINOLIA."

For the complexion.
Soothing, Non-
Medicinal, Demul-
cent.

In elegant vase,

	Retail each	Per doz.
7/6	68/3	



"VINOLIA" PERFUMES.

"Vinolia" Bouquet, Jequilia,
Mareuil, Losaria, White
Heliotrope, Opoponax, Sa-
planotis, Jockey Club, White
Rose, Wood Violet, Frau-
pami, Millefleur, March-
Niel, Ess. Bouquet, Yang
Yang.

	Retail each.	Per doz.
1/9, 3/-, 5/-, 8/-	14/-, 24/-, 40/-, 72/-	

TERMS.—Orders under £2 nett. £2 to £5 Orders, 7½ per cent. and Cash Discount of 7½ per cent. (making 5 per cent. in all); £5 Orders and upwards, 7½ per cent. and Cash Discount of 2½ per cent. (making 10 per cent. in all), and Carriage Paid. On Orders for Premier "Vinolia" Soap of not less than £2 in value we allow our bottom terms of 7½ per cent. and 2½ per cent. Cash Discount (making 10 per cent. in all), and Carriage Paid. Packing Cases Free.

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CHEMISTS' AND GENERAL PRINTERS, LITHOGRAPHERS, ENGRAVERS, ETC.
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New Designs. Write for Specimens and Prices, Post Free.

PICTORIAL COUNTER BILLS

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PRINTED IN COLOURS AND SPECIALLY DESIGNED FOR CHEMISTS' ADVERTISING.

ORDINARY COUNTER BILLS,

On GOOD WHITE PAPER, at LOWEST PRICES ever offered.

10,000 CROWN OCTAVO BILLS (7½ in. by 5 in.) **11/6**

10,000 DEMY OCTAVO BILLS (9 in. by 5½ in.) **17/-**

All other Sizes at equally Low Rates. Specimens and Prices on application.

CABINET PAPER FOR THE WATER-CLOSET.

In Registered Shape Boxes and in Packets. SAMPLES AND PRICES ON APPLICATION.

Price Lists, Pamphlets, Circulars, Billheads, Memorandums, Cards, and all kinds of Printing and Stationery required by Chemists, at most Moderate Prices.

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SACHET ALMANACK, printed 32 pages.	
PRESENTATION „ „ 32 „	
THE COURT „ „ 36 „	
THE NEW „ 7×4¾ „ 36 „	

Covers printed in 5 Colours.

HANGING CALENDAR, in Colours.

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SINGLE CARD CALENDARS.

FOLDING CARD CALENDARS.

PURSE ALMANACKS.

Specimens and Prices Now Ready.

Sent Post free on receipt of Business Card.

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HAS A LARGE COLLECTION OF

ADVERTISING NOVELTIES

SPECIALLY PREPARED FOR

CHEMISTS AND DRUGGISTS,
NOW READY,

Specimens which could be had on application.

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CARD CALENDARS. CIRCULARS.
WALL POCKET CALENDARS. INSETS.**

And every description of

HIGH-CLASS COLOUR WORK.

Special Attention given to Reproductions of Original Designs, and Estimates given.

ALBERT HILDESHEIMER, 2 & 4 New Zealand Avenue, BARBICAN, LONDON, E.C.**SOME DAY****It may be Useful**To know that LARGE CONSUMERS are supplied with well designed and well printed Show Cards, Wrappers, Labels, Leaflets, and every kind of Colored Printing at low prices.**ESTIMATES GIVEN. CORRESPONDENCE INVITED.****TAYLOR BROTHERS,**
Color Printers by Modern Methods, LEEDS.**STOKES'**
CASH TILL.
REDUCED PRICE
50/-

(Sent on Trial seven days, on receipt of two references).

Particulars and Testimonials on application.

G. R. STOKES & CO., LIM.,
HANLEY, STAFFS.**W. MCKENZIE & CO.**

(Late with Hildesheimer & Faulkner).

A New & Pretty WALL POCKET for Chemists' Advertising.



Price 22/- per 100. Printing advertisement extra—100, 2/6; 250, 4/6; 500, 7/6; 1,000, 10/6. Calendar printed on side fold if required.

The same design is supplied as a Flat Calendar, with silk cord for hanging.

Price 16/6 per 100. Printing advertisement extra, as for Wall Pocket.

The white & gold embossed Pocket Calendars are a dainty & choice Advertising medium.

W. MCKENZIE & CO., Colour Printers,
40 Aldermanbury, LONDON. E.C.

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TRINITY SQUARE, BOROUGH, LONDON, S.E.

The next Course for Major, Minor, and Preliminary will be commenced on October 23rd.

Students intending to commence then should enter their names at once.

FEES—

MAJOR	...	3 months, £5 5s.	...	Until passed, £10 10s.
MINOR	...	£8 8s.	...	£15 15s.
PRELIMINARY	...	£3 3s.	...	£5 5s.

EVENING CLASSES

Are held on Tuesday, Wednesday, and Thursday; fees and full particulars on application.

THREE YEARS' FREE TUITION.**WILLS' UNIVERSAL POSTAL SYSTEM.**

"Those who cannot attend a school of pharmacy will find 'Wills' Universal Postal System' train them in a way they should go."—*Chemist and Druggist*.

"Mr. Wills, of Westminster College, one of our most successful tutors, extends him a helping hand, leaving it simply his own fault, and deserving it, if he blindly labours on in ignorant darkness."—*Magazine of Chemistry*.

For prospectus and full particulars apply to

E. WALDEN, Secretary.

THE METROPOLITAN COLLEGE

OF PHARMACY,

162 KENNINGTON PARK ROAD, LONDON, S.E.

Principal ... **W. WATSON WILL, Ph.Ch., F.C.S.**

The First Complete Course of Lectures for the Minor and Major Examinations will commence on Monday, October 2nd. The Practical Course includes Chemistry, 100 hours; Practical Pharmacy and Dispensing, each 33 hours. The above periods admit of a systematic course in each subject, the entire work being done under the direct supervision of the Principal.

Fees: { Minor Course, Ten Guineas.
Major Course, Six Guineas.

ABSOLUTELY INCLUSIVE. NO EXTRA PETTY CHARGES.

For particulars apply to the Secretary,
WALTER S. CARVER.

**THE CENTRAL SCHOOL
OF
CHEMISTRY & PHARMACY,**

173 Marylebone Road, London, N.W.

(Late LUFF & WOODLANDS.)

Lecturers { Dr. A. B. GRIFFITHS, Ph.D., F.R.S.E., F.C.S., &c.
Mr. L. COOPER, F.C.S., F.R.B.S., &c.

The term commenced on **MONDAY, SEPT. 4.** This School is fitted up with every convenience for Pharmaceutical Students, and the utmost endeavours are made by means of individual attention to secure a successful issue.

Extra Lectures are given throughout the course, and for reference Students are requested to apply to any past Students.

Entries are now being received, and prospectuses will be forwarded on application to **THE SECRETARY.**

**THE LIVERPOOL
SCHOOL OF PHARMACY,**

24 NEWINGTON, LIVERPOOL.

Principal—**Mr. R. C. COWLEY, Ph.Ch.**

(Late Mr. J. S. WARD).

The success which has attended this School under the present management has been unprecedented, the number of passes being nearly 70 per cent.

Students entering for a course of instruction at this School may rely upon receiving every attention from the Principal, and training which will enable them to pass the Pharmaceutical Examinations with ease.

The curriculum of this School has been submitted to and approved of by the Council of the Liverpool Chemists' Association, who have appointed the following gentlemen to visit the School from time to time, and otherwise control the study:—

Messrs. T. F. ABRAHAM, Ph.Ch., M. CONROY, F.C.S.,
C. SYMES, Ph.D.

The Full Course commenced on September 11.

The **EVENING CLASSES** will continue to be held, as usual, on the **TUESDAY** and **WEDNESDAY** Evenings.

The Syllabus, with full particulars, may be had, post free on application to the Principal.

**SHEFFIELD COLLEGE
OF PHARMACY.**

PRINCIPALS { **Mr. R. B. GREAVES, F.C.S.**
Mr. J. W. J. TURNER.

At the July Examination, Mr. R. GREAVE, of Pontefract, passed the Major. This gentleman was successful at first attempt in both Minor and Major, so also were the last four Major Students from here.

The College is now full for the October Examination.

Send in names early for the Course commencing October 3rd, for the January Examination.

Apply for Prospectus, &c., to the Principals, 118 Princess Buildings, The Moor, Sheffield.

KING'S COLLEGE, LONDON.

CHEMICAL DEPARTMENT.

The Analytical Laboratories, under the direction of Professor Thomson and Demonstrators, will reopen for the ensuing Session on Monday, October 2. The Laboratory is open daily (except Saturday) from 10 till 5.

The Daniell Scholarship, value £40, for original research done in the laboratory, will be awarded in March, 1894.

For further particulars apply to the Secretary, King's College, W.C.

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ALPE'S HANDY BOOK OF MEDICINE STAMP DUTY. Price 2s. 6d.

PROCTOR'S MANUAL OF PHARMACEUTICAL TESTING.

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VETERINARY COUNTER PRACTICE. Price 3s. 6d.

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42 Cannon Street, E.C.

THIRD SEASON, 1893-4.

A UNIQUE APPLICATION OF KNOWN SCIENTIFIC FACTS.

Registered No. 160642.

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"FURFELT"

CHEST PROTECTORS

Are the result of a successful attempt to utilise as a protective covering for the Chest the *best non-conductor of heat known*, namely, *Coney Fur*.

By incorporating this fur by a new process with fine Undyed Lamb's Wool we have produced a material which is a scientifically perfect protection for the organs of the Chest against cold.

Since they are made from the warmest materials known, are so porous that a candle may be blown out through them, are non-absorbent, free from dye of any kind, soft as silk, perfectly washable, and of moderate price, they have been universally adjudged by the trade and its press

"AN IDEAL CHEST PROTECTOR."

INSIST ON OUR REGISTERED TRADE MARK AS HERE FIGURED.

	No. 0	1	2	3	4	5	6	
PRICES { Single ...	5/6	6/6	9/-	12/-	15/6	20/-	25/-	per doz.
Double ...	12/-	15/-	20/-	25/6	34/-	42/6	52/-	"
Vest Shape...	16/6	22/6	30/-	37/6	46/6	58/6	70/-	"

SOLPORT BROS., 66 Shaftesbury St., New North Road, **LONDON, N.**
AND OF ALL WHOLESALE HOUSES.

PLATINUM—IRIDIUM

HARD AS STEEL.

CRUCIBLES, LADLES, BOTTLES, SHEETS, WIRE, &c.

Messrs. CROSS & BEVAN report:—"The resistance of the metal to Aqua Regia is remarkable. We found that a strip measuring 36mm. by 12mm., kept immersed in the boiling acid, lost only 0.08 F. % in three hours and 0.3 in 20 hours."

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SPECTACLES & EYE-GLASSES
IN ALL METALS,
And for all kinds of OPTICAL GOODS, buy from the Makers.
Lists and information upon Application, of

BOTWRIGHT & GREY
(Late A. H. BOTWRIGHT),
MANUFACTURING OPTICIANS,
CLERKENWELL, LONDON, E.C.

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received by post are executed
and returned the same
day.

EXCHANGE COLUMN.

This Section of "The Chemist and Druggist" must be closed for press by Wednesday morning's post of each week. Remittances payable to EDWARD HALSE.

FOR DISPOSAL.

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Journals — *Chemists Druggists* since 1860; monthlies 3d., weeklies 2d., or offers, to Williams, Chemist, Coleford, Gloucestershire.

Drugs and Chemicals.

Overbought.—New Norwegian cod-liver oil, non-freezing, 25-gal. casks, 60s.; 2 cwt. pure glycerine, 4l. 15s. 4½. Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

Educational.

Nearly new histological microscope, 2 eyepieces, 2 objectives, cost 6l. 6s., price 4l. 4s.; section-cutter, 7s. 6d.; spot-lens, 5s. 6d.; air-pump, 12s. 6d.; 24 interesting slides, 10s. 6d.; post free. Henry Ebbage, Southend-on-Sea.

Books for sale or exchange, the purchaser paying carriage:—Squire's "Companion," 3s., 5s., and 7s. each; Pereira's "Materia Medica," 3 vols., 21s.; Attfield's "Chemistry," 7s. 6d.; Taylor on "Poisons," 5s.; Turner's "Chemistry" (large), 12s. 6d.; Muspratt's "Chemistry," 2 large vols., 25s.; Hooper's "Medical Dictionary," 15s.; Cooley's "Cyclopædia," 15s.; Fresenius' "Analysis," 5s. Wanted, last edition Dorvault's "Officine" or Paris Codex. Russell, Chemist, Windsor.

Microscope, swing motion, bronze stand, coarse and fine adjustment, capped eye-piece, concave mirror, 3 objectives (French triplet), stand, condenser, polariscope, stage, forceps, live-box, and tweezers, in mahogany cabinet, with lock and key, 3l. 3s.; Attfield's "Chemistry," 11th edition, 7s. 6d.; Roscoe's "Chemistry," 1891, 2s. 6d.; Pereira's "Selecta & Prescripta," 17th edition 3s.; British Pharmacopœia, 1885, 2s. 6d.; Remington's "Practice of Pharmacy," 1889, 15s.; Garrod's "Materia Medica," 13th edition, 7s. 6d.; Wills's "Materia Medica," without coloured plates, 4s.; Beasley's "Druggist's Receipt Book," 5th edition, 2s.; Beasley's "Book of Prescriptions," 2nd edition, 2s.; *Chemist and Druggist Diaries*, 1891 and 1892, each 1s. 6d.; Ince's "Latin Grammar of Pharmacy," 5th edition, 4s. W. R. Gibson, 3 Lyndhurst Road, Peckham, London.

Formula.

For sale, 130 well-tried recipes, neatly copied in book, post, 1s. 6d. Tully, Chemist, Hastings.

Shop Fittings.

Three swan-neck carboys, with cut-glass stoppers, on stands (by Maw), 4l. 10s. Wood, Old Town Hall, Hackney.

Mahogany bent plate-glass counter-case, lined, mirror back, &c., 2 ft. 6 in.; mahogany dispensing-screen, 5 ft. long, glass case front, black movable shelves; Maw's pill-machine, reversible, 24 5-gr. pills, marble slab, new; must be sold at once; any reasonable offer accepted. Apply, "Dispensary," 199 Oxford Street, Stepney, E.

Miscellaneous.

Palermo lemon oil, 3 50-lb. coppers, 4s. 6d. lb.

Beehive Works, Droylsden. Also kneading-machine, 4l. 10s.

One 25s. Dr. Judd's electric battery and belt, new; electric battery in handsome walnut case, cost 65s., nearly new, primary and secondary currents; what offers? Ross, 116 Friargate, Preston.

5l. 5s. "Facile" hand-camera (1892 improved), with R. R. lens and 4 rotating stops, also waterproof cover and straps; lot 4l. 10s., or exchange for ½-plate camera. Matthew, Hoyland, Barnsley.

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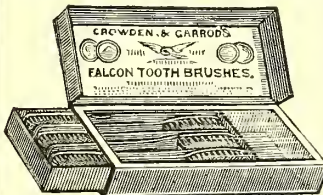
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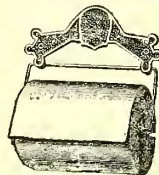
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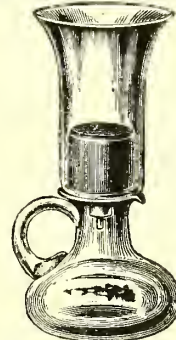


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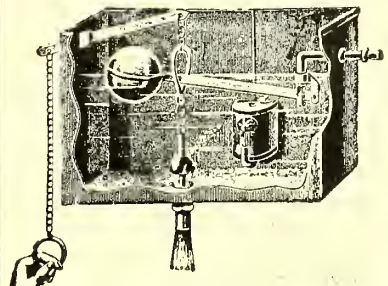
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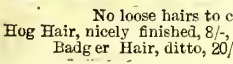
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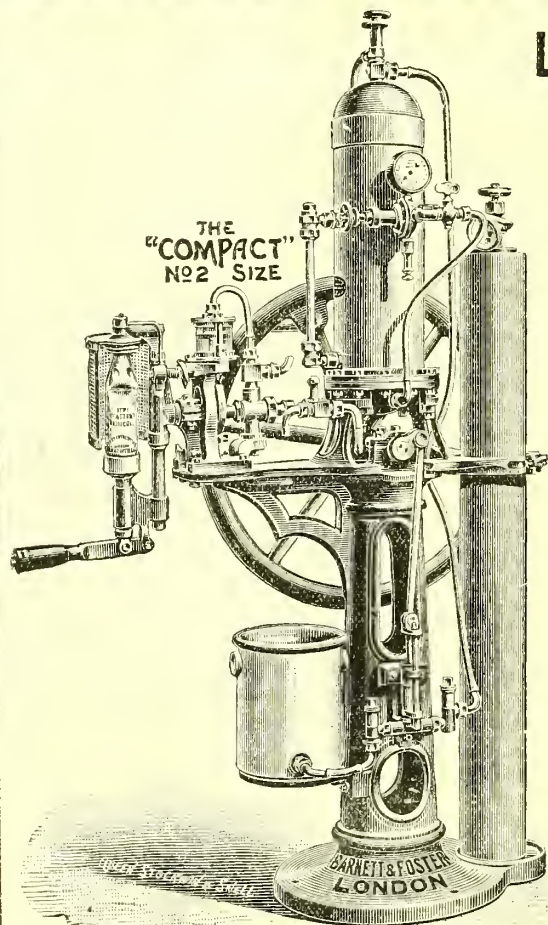


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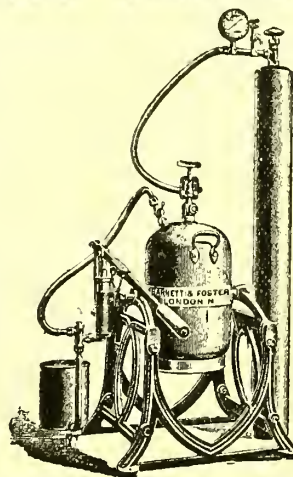
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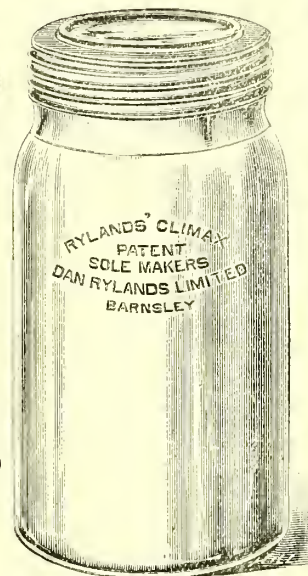
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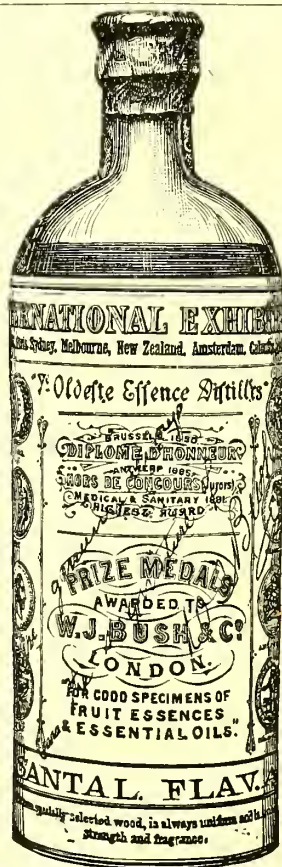
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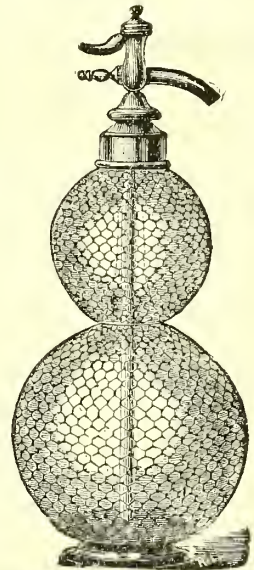
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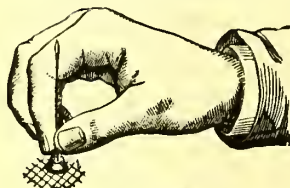
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OFFICES: 42 CANNON STREET, LONDON, E.C.

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The Circulation of THE CHEMIST AND DRUGGIST largely exceeds that of any Journal in the world in connection with the trade represented.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—£1,000.—LONDON (Suburban).—Retail and Dispensing Business, of good class; returns £1,000 yearly; profits exceed the general average; neatly-fitted shop, with good stock; comfortable house, held on lease (beneficial); capital business locality; price about £950; full investigation.

2.—£2,000.—LONDON (Suburban).—First-class Dispensing and Retail; situate in a favourite residential locality; returns over £2,000 yearly; good profits; very good house; shop handsome and attractive, and good stock; the fullest investigation is invited; about £2,000 required.

3.—£600.—LONDON (Suburban).—Retail and Dispensing Business; situate in a good-class locality; established many years; the shop is well fitted and convenient; returns £600 yearly; house contains 6 rooms; garden attached; rent moderate; price £550.

4.—£550.—LONDON (Suburban).—Dispensing and Retail Business, with Post-office; situate in a rising neighbourhood; returns £550 yearly, exclusive of Postal profits; well-fitted shop; good stock; comfortable modern house and garden; held on lease; price £550, for lease, goodwill, stock, and fixtures.

5.—£1,000.—LONDON (easy distance of North London).—In an increasing locality; an established Business; returns £1,000; well-fitted shop and large stock; good house, convenient and commodious; price £900; the fullest investigation is invited.

6.—£2,000.—LONDON, W.—First-class old-established Business; situate in a prominent position; returns over £2,000 yearly; handsome shop and good stock; large and convenient house, on lease; income must be prepared with about £1,400; references required as preliminary.

7.—£1,000.—LONDON, W.—Retail, Dispensing, and Prescribing Business; situate in a busy locality; returns £1,000, all very profitable business; well-fitted shop, commodious and convenient; house contains 6 rooms, kitchen, and offices; garden, &c.; price £550 cash.

8.—£1,700.—SOUTH COAST.—First-class Dispensing and Retail Business, held by vendor many years; returns £1,700 yearly; all very profitable business; commodious and well-appointed house; position prominent; sea view; income must be prepared with about £1,400.

9.—£850.—HANTS.—Retail and Dispensing and Mixed trade; situate in a rural town in centre of a good agricultural district; returns £850 yearly, admitting of increase; profits very good; convenient house, low rental; price £600; trial allowed.

10.—£1,400.—EASTERN COUNTY.—Old-established Business; business of good profitable Mixed class; returns £1,400 yearly; the shop is convenient and roomy; good stock; house is large and convenient, with warehouse accommodation and garden, &c.; purchaser should be prepared with about £1,200; valuation of stock and fixtures will be arranged for.

11.—£550.—NORTH WALES (Border of).—Old-established Business; situate in a good market town; returns £550 yearly; very good profits; shop is well fitted and good stock; convenient business premises and good house; rent low; price about one year's returns.

12.—£350.—WORCESTERSHIRE.—In a small town; an established Business, Retail and Prescribing; returns £350 yearly; very profitable; convenient shop and warehouse; house has 6 rooms, stabling, &c.; rent low; price required about £200.

13.—£400.—SEASIDE (South Coast).—Death vacancy; Dispensing Business and general Family Retail; returns £400 yearly, increasing; well-fitted shop and good stock; convenient house, held on lease; price about £300.

14.—£700.—ENGLISH PHARMACY.—South of France.—Profitable good-class concern; well suited for a Branch from an English house; the season extends from October to May, the net profit produced being £325; about £700 required.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION. Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the special attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

F. J. BRETT, VALUER, LEICESTER,

60 St. Stephen's Road.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE. NO CHARGE TO BUYERS.

STOCKTAKING UNNECESSARY.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

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STOCKS AND FIXTURES BOUGHT FOR CASH.

£1,000 returns.—**HOME COUNTY.**—Very desirable Retail; capable with personal attention of great increase; net profit about £400; price £1,000.

£1,400 returns.—**DEVON.**—High-class Retail, Dispensing and own Proprietaries; excellent residence; price £900.

£1,100 returns.—**CHESHIRE.**—General Light Retail, at good profits; convenient house; lease; price £800.

£670 returns.—**LAKE DISTRICT.**—Death vacancy; price £220.

£675 returns.—**DERBY.**—Can be much increased; good position; price £300 or valuation.

BERDOE & CO.,

CHEMISTS' TRANSFER AGENTS & VALUERS.

30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

NOTICE TO VENDORS.

Having been for the past 22 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers, the largest experience of any in the Trade. VENDORS placing their businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

BUSINESSES WANTED.

NO CHARGE TO PURCHASERS.

1.—**GLOUCESTERSHIRE.**—Unopposed good-class Retail, Dispensing, and Prescribing Business; returns £550, full prices; excellent house, with garden; illness sole cause of leaving; price about £530.

2.—**SUFFOLK.**—Unopposed Retail and Prescribing Business; returns £550; net profit over £300, guaranteed; double front, well fitted; rent £30; good house, large garden; price £525.

3.—**YORKSHIRE.**—Light Retail and Prescribing Business; returns £500, under management; principal did £800; low rent; good house; valuation of stock and fixtures will be accepted.

4.—**EASTERN COUNTY.**—Unopposed Light Retail and Prescribing Business; returns over £1,000; very low rent; good house and garden; shop well fitted and stocked; price £400, or offer.

5.—**HANTS COAST.**—Retail and Prescribing Business; returns over £600, producing a net profit of over £300 yearly; low rent; good house; price £400; every investigation allowed.

6.—**BRISTOL (near).**—Retail, Dispensing, and Prescribing Business; same hands 49 years; returns £429 under management; net profit, nearly £200; rent £40, good house; price £250.

7.—**LONDON, N.W.**—Old-established Retail and Dispensing Business, with large sale of own proprietaries; returns £1,460; net profit £450; satisfactory reasons for selling; price £1,250 or offer.

8.—**LONDON, W.**—Retail and Prescribing Business; returns £600, very profitable; good shop, well stocked; comfortable house; price £500; £200 could remain; every investigation allowed.

9.—**CITY.**—First-class position, elegantly-fitted Pharmacy; under management neglected; principal could do £1,000 yearly; good prices obtained; price £450 or valuation.

Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

ANDROS & CO.,

Chemists' Transfer Agents & Valuers,

67 SHIP STREET, BRIGHTON,

Have received instructions to dispose of the following Genuine Businesses.

SURREY (Fol. 961).—Light Retail, Dispensing, and Prescribing Business; handsome shop, 8 rooms, and garden; established 23 years; rent £50; returns £400, which could be greatly increased; price £225.

BIRMINGHAM (Fol. 962).—Retail and Dispensing Business; convenient house; very low rent; returns £300; price only £60, of which half can remain; very suitable for beginner.

NORTH-WEST OF ENGLAND.—Old-established Retail and Prescribing Business; large and very convenient house, low rent, nearly cleared by letting; exceptional opportunity; price £200; stock would be reduced to suit purchaser.

LONDON, S.W.—High-class Chemist's and Scientific Business; old-established, same hands 14 years; handsome Pharmacy; 7-roomed house, with large garden; moderate rent, on lease; returns about £800; price £600; satisfactory reasons for disposal.

Messrs. Andros & Co., having numerous applications for Businesses in all parts, will be pleased to receive particulars from intending vendors.

NO CHARGE WHATEVER TO PURCHASERS.

66

CROCKER & CO.

SOLE PROPRIETORS—

Mr. WILLIAM JUDD and Mr. ALFRED MANNERS,

Trade Valuers, Transfer Agents, and Accountants.

15 WALBROOK, E.C.

Having numerous inquiries for good-class Country Businesses they invite communications from intending vendors.

NO CHARGE IS MADE UNLESS A SALE IS EFFECTED.

CHESHIRE.—An old-established Retail and Dispensing Business, in best part of busy market town; returns £1,030; price £800, or valuation of stock and fixtures. This is well worth the attention of a pushing man, as there is great scope for improvement.

DEVONSHIRE.—Good-class Retail and Dispensing trade; returns £1,400; price £1,000; well recommended.

HERTS.—Old-established good-class Family Business; returns nearly £650, and capable of great increase; good house and garden; price £450.

SOUTH COAST.—A first-class Dispensing and Retail Business, with handsome Pharmacy; situated in the best position of an important health resort; giving a net profit of £600 a year; price, £1,850.

SOUTH COAST.—VALUATION ONLY.—First-class Dispensing Business, in fashionable health resort on the South Coast; splendid opportunity for a young and energetic man to acquire an excellent business upon favourable terms.

LONDON, S.E.—Good-class Family and Dispensing Business; returns £500; price £400; very handsome Pharmacy in select residential locality.

LONDON, N.—Main road; old-established cash Retail and Dispensing Business; fine bold commanding shop, beautifully fitted and well stocked; returns £1,450, very profitable; price £1,250.

LONDON, W.—Retail and Dispensing trade; returns £1,000; price £550; handsome pharmacy, well stocked; good position, main thoroughfare.

LONDON (Northern Suburb).—An excellent Family trade; returns £700; price £600; net profits very good.

LONDON, S.E.—Retail and Family Business, returning £400 a year with good house in best position of district; price £350; a bargain.

NO CHARGE TO PURCHASERS.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

IN large provincial town, a Drug-stores, returning £12 per week under manager; going cheap to an immediate purchaser; no agents. 45/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR Sale, two Shops and Houses situated in busy market town, in Shropshire; one of the shops very old-established Chemist Business, established 70 years. Apply, S. H., 191 High Street, West Bromwich.

MIDLANDS.—Good General Mixed Retail, near large town, returning about £800; established 16 years by vendor; every investigation allowed; price about £600. F. J. Brett, Valuer, 60 St. Stephen's Road Leicester.

£450.—In good working-class neighbourhood, Mixed Business, returning nearly £1,300; suit good Prescriber; corner shop, well fitted and stocked. "Castor," c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£120.—Near Putney; Retail and Prescribing Business; returns £300; established 12 years; scope for development; well-fitted shop; rent and taxes only £35; price £120, or offer. P., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR Sale, immediately, small Business; changed hands once in 50 years (now closely); crowded neighbourhood; corner shop; rent 8s. 6d. weekly, let off 7s. 6d.; no taxes; price for everything, including some furniture and new outside lamp, £50. "Chemist," 227 Commercial Road, E.

EASTERN COUNTIES.—Rare opportunity occurs for acquiring a sound Cash Retail, Prescribing, and Dispensing Business, through illness; returns last year £750, increasing; 8 rooms and private entrance; corner shop; low rent, on lease; price £600. Apply, Messrs Smith & Son, Wholesale Druggists, Norwich.

NORTHERN Heights of London.—A handsomely-fitted and well-stocked Pharmacy, in charming district, which is rapidly improving; stands without opposition, and bound to grow into a large trade; good house, stabling, and garden; splendid opportunity for young man just entering business; price £375. "Calumba," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS OPEN—Cont.

WANTED early in October, Junior Assistant; neat and accurate Dispenser; good home with moderate salary offered; hours are 9 till 8, with alternate evenings and Sundays; half-holiday fortnightly. Apply at once, to Mr. Goodess, Dispensing Chemist, Hotel Street, Leicester.

A JUNIOR or Improver, indoors, with some knowledge of Dispensing, in a good Family business; with opportunities for attending classes, and help given in preparing for the Minor; in a Northern city. Address, with full particulars of age, previous engagements, &c., to "Senega," Messrs. Hodgkinson, 101 Whitecross Street, London.

TRAVELLER.—An old-established firm, well known to Drug Trade, wants Traveller open to another commission, who has a really sound connection with Chemists in provinces; small sample, very little trouble; season just commenced. State district covered and full particulars, "Manager," Lofden Cod-liver Oil Company, 133 Minories, London, E.C.

OCTOBER 2.—Good Counterman and Salesman, qualified preferred, about 23, indoors, for West-end Drug and Dispensing Store; must be well recommended by last employer. Apply, first instance, stating full particulars, enclosing carte, to H. Messrs. Hodgkinson & Co., 101 Whitecross Street, E.C. Also, end of October, vacancy for Bookkeeper; must have some experience.

INDIA.—At once, a good, experienced Assistant holding the Major or Minor qualification; Scotchman preferred; must be well up in Dispensing and all other branches of a Chemist's business; those with a knowledge of Surgical Instruments, Photographic, and Scientific Apparatus preferred; aged about 25; 4 years' agreement; salary 1st year, 200 rupees per month; second year, 250 rupees; third year, 275 rupees; fourth year, 300 rupees; second-class passage paid out; candidates must hold undeniable references. Apply to "S.S. India," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, O.

SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

WHOLE or Part-time; disengaged; aged 23. F., 377 New North Road, Islington, N.

PART-TIME, evenings and Saturdays. "Chemicus," 133 The Grove, Hammersmith.

DISPENSER to Surgeon; 7 years last situation. 67 Hudson Street, Preston, Lancs.

ASSISTANT; 20; 5 years' experience; London preferred. James, Railway, Clynderwen.

PART-TIME, in London; qualified; best references. J. Hughes, Castle View, Rhnddlan.

LOCUM-TENENS; 36; qualified; abstainer; disengaged. "Minor," 8 Castle Street East, W.

IMPROVER; 20; disengaged; small salary. John Stephenson, 71 Burlington Street, Manchester.

ASSISTANT or Branch Manager; qualified; good-class business desired. Milligan, Aberdare.

AS outdoor Junior; Mixed business; Midlands preferred. Richards, Dinorwic Street, Carnarvon.

ASSISTANT; unqualified; aged 23; outdoors preferred. "Compo," 19 Middle Street, Worcester.

ASSISTANT; outdoors; Minor; disengaged; 27. Seyon, 17 Priory Terrace, Caversham, Reading.

WHOLE or part time; outdoors; 24; 5 years' experience. K., 3 Winchester Terrace, Putney.

JUNIOR; 6 years' experience; good Dispenser; outdoors; Midlands. R. T. Jeffs, Lyddington, Rutland.

DISPENSER to Surgeon; state terms; South Coast preferred. William Goldfinch, Heudon, N.W.

ASSISTANT (23); unqualified; thoroughly competent; Extractor. J. D., Portland Villa, Stourbridge.

BRANCH Manager; married; Minor; Hall; moderate terms. Charles H. Fentiman, 233 East India Road.

AN experienced Assistant seeks situation; permanent or otherwise. "Statin," 88 Monk Street, Derby.

PART-TIME; 21; every evening off; London; in or outdoors; good references. S., 38 Bow Street, W.C.

QUALIFIED; London or country; outdoors preferred, but not essential. Summers, Heckington, Lincs.

JUNIOR; time to attend classes for Minor; aged 21; London or Edinburgh. J. Reed, Market Place, Ware.

ADVERTISER (23) requires engagement; would suit Surgeon's Retail. R., 7 Gardom Street, Mile End, E.

QUALIFIED Assistant or Manager; view to purchase; or Locum. "Avondale," Saltram Crescent, Taddington.

ASSISTANT; qualified; 24; first-class experience; outdoors preferred. A. R., 13 Brunswick Square, W.C.

AS Assistant Dispenser or Manager, by qualified Chemist; aged 41. S. Hassall, 143 Charles Street, Hanley, Staffs.

ENGAGEMENT by the day, week, or month; qualified; disengaged. A. B., 69 Adolphus Street, New Cross, London.

ASSISTANT; 22½; disengaged; outdoors preferred; 7½ years' experience; reference. Stow, Haverholm, Sleaford.

WHOLESALE: Wet or Warehouse, or Mixed Retail; married. "Drugs," 17 Plum Street, Seaforth, Liverpool.

MANAGER or Assistant; disengaged; aged 29; experienced. "Quassia," 25 Queen's Road, Everton, Liverpool.

BRANCH Manager or Senior; outdoors; married; qualified; 26; West-end experience. T., 13 All Saints' Road, Bayswater.

JUNIOR; 21; 4 years' experience; part time in London or suburbs not objected to. Williams, Llynol Lodge, Maesteg.

ASSISTANT; Chemistry and Grocery; 19½; tall; 5 years' experience; references. Sharman, Bottrill Street, Nuneaton.

ASSISTANT; 27; 13 years' experience of first-class business; 5 years Manager. "Camphor," c/o Ayrton & Saunders, Liverpool.

MANAGER or Senior; outdoors; permanency; highest references in town and country; disengaged. "Beta," 41 Hornsey Rise, N.

ASSISTANT; 28½; qualified; outdoors; 12½ years' experience; good references. "Minor," c/o Mr. T. Fox, Chemist, Great Malvern.

BRANCH Manager; registered; town or country. Address, 45/31, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT, Major, for South of France; aged 26; first-class varied experience; highest references. X. Z., 12 Highbury Grange, N.

ASSISTANT, Minor qualification, very good experience, aged 24, wants situation in the West-end. Hopkins, 4 Cancell Road, Brixton.

DISPENSER and Bookkeeper to surgeon; experienced; outdoors; first-class testimonials. J. T., 110 Devonport Road, Shepherd's Bush, W.

ENGAGEMENT wanted in Wholesale firm; good experience, and has travelled. 3/7, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; 20; 5 years' Store experience; good Dispenser; references. Apply, "Tarax," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EVENING employment, in return for board and lodgings; good references. 45/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER to Chemist or Surgeon; unqualified; excellent references. 46/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISENGAGED; qualified; 24; in good-class house; good references; 2 years last situation. Wilkinson, 30 Quarry Road, Bulwell, Nottingham.

MANAGER or Assistant; unqualified; 25 years' experience in Heavy Mixed and Light Retail; abstainer. "Locum," 77 Branch Road, Burnley.

MANAGER or Senior; aged 32; height 5 ft. 10 in.; good London and provincial experience; Minor; single; disengaged. "Alpha," Horwich, Lancs.

MANAGER or Senior; good Dispensing experience; highest references; 30; qualified. Address, Johnstone, Chemist, Shield Street, Newcastle-on-Tyne.

ASSISTANT or Dispenser; 26; experienced Prescriber and Extractor; excellent references; disengaged. "Dispeuser," 5 Lyme Street, Camden Town.

AS Dispenser to Medical Practitioner or Chemist and Druggist; qualified; good dispensing experience; aged 24; abstainer. Evans, 45 Commercial Street, Aberdare.

SITUATIONS OPEN—Cont.

JUNIOR Assistant wanted. Full particulars, or apply personally (preferred), J. K. Hobbs, 33 High Street, Harlesden, N.W.

WANTED, a qualified Assistant; outdoors; one seeking a permanency preferred. S. F. Burford, Halford Street, Leicester.

MESSRS. HEATH & CO., Homoeopathic Chemists, require an indoor Assistant. Apply, stating age, salary, &c., 114 Ebury Street, S.W.

J. DAY, Chemist, Savile Town, Dewsbury, is in want of a registered Assistant; also a good Junior. Apply, stating experience, age, salary, &c.

CHEMISTS.—Wanted, an Assistant, about 22, used to Light General Retail; indoors. Address, N. M., 50 Holyhead Road, Handsworth, Birmingham.

WANTED, a Junior Assistant; must be strictly honest, sober, industrious, and trustworthy; outdoors; hours light. Apply, 509 New Cross Road, S.E.

A QUALIFIED Assistant, to Manage a small Branch in the country; Mixed, but no heavy trade; must have good references. Apply, Corfe, Chemist, Maidstone.

AT once, qualified Assistant (aged about 24) to Manage Branch. Apply for particulars, sending photo (to be returned), to Barnes, 45 Caldmore Road, Walsall.

WHOLESALE Drug and Druggery.—Wanted, a Junior for the Dry Counter. Apply, by letter, Wilkinson & Simpson, Wholesale Druggists Newcastle-on-Tyne.

REQUIRED, Dispenser (outdoors) to Medical Man; country practice; time for reading; salary £50 to £60. Apply, J. A. A., Townshead House, Halesowen, Worcestershire.

WANTED, qualified Assistant; hours short, and no Sunday duty. Please state salary required (outdoors), together with age, height, and references, to E. G. Carrington, Bakewell.

GOOD opening for well-educated youth, about 17, to learn Dispensing and Pharmacy; board and lodging provided; premium required. Apply, W. H. Davis, 77 London Street, Reading.

WANTED, at once, Senior Assistant; indoors; aged from 28 to 40 years; Tooth-extractor preferred; salary to commence £60 per annum. Apply to Reece & Co., 53 Great Marylebone Street, W.

INVOICE Clerks wanted, well acquainted with the Wholesale Drug and Patent Medicine trade. Apply, stating salary required, &c., to Taylor's Drug Company (Limited), 18 Guildford Street, Leeds.

WANTED, immediately, an Assistant, between 22 and 30, for Light Retail and Dispensing; qualification not necessary. Apply, personally, before 2 or after 6, at 311 Commercial Road, E.

WANTED, a good Junior for Light Retail and Dispensing; abstainer preferred. State age, height, references, salary required (indoors), and enclose photo, to Major Hill, 36 Elm Road, Wisbech.

QUALIFIED Dispenser (immediately), of good experience, indoors; aged about 25; must write a good hand. Apply, personally, to R. A. Potts, 62 South Audley Street, Grosvenor Square, London, W.

WANTED, an Assistant, about 26, accustomed to a Dispensing, Prescribing, and Light Retail business; salary £50. Apply, with particulars and references, to J. Woodcock, 75 Shaw Street, Liverpool.

WANTED, immediately, an unqualified Junior; accustomed to good-class Retail and Dispensing; must be energetic and accurate; indoors; senior assistant kept. Babb & Co., 5 Pond Street, Hampstead.

IMMEDIATELY.—J. H. Spencer, Hills Prizeman, 36 Bridge Street, Chester, has a vacancy for a Junior Assistant; must be a careful Dispenser and a total abstainer; state age, experience, salary required, &c.

IMMEDIATELY; competent Assistant of good address; well up in Dispensing; not under 25. Also Junior for Stock and Retail counter; 22 or 23. Apply, personally if possible, G. J. Knight, 452 Edgware Rd., W.

ASSISTANT, in a Wholesale Drug and Druggery business, to travel 4 days a week; one seeking a good and permanent situation wanted; indoors; single. Salary, references, &c., B. B. Cowgill, Sowerby Bridge, Yorks.

QUALIFIED Assistant, to take charge of a Branch; must be energetic and reliable, and good Extractor of Teeth; half-holiday every week. Apply with references and photo, to Butterfield, Chemist, Darwen.

AGENTS wanted (Chemists) in every town, &c., for our Horse and Cattle Foods; best goods on market; 43 medals and diplomas in 1892; good profits; liberal terms. Champion Food Co., 67 Victoria Street, Liverpool.

WANTED, Junior Assistant, accustomed to Agricultural business; good Dispenser. State age, height, salary required (indoors), references, to Perkins, Chemist, Lichfield.

IMMEDIATELY, a Junior Assistant with good address and experience; indoors (sleep out, room found). Apply, with age, height, salary required, photo and reference, to John Lea, Harbour Street, Folkestone.

A RELIABLE Assistant; indoors; must be neat and energetic; abstainer preferred; weekly half-holiday. Send photo, with fullest particulars, W. T. Oldham & Son, Chemists and Opticians, Market Place, Wisbech, Cambs.

WANTED, active Junior; must be quick and reliable, and accustomed to the sale of Photographic requisites. Apply, stating age, salary, and references, and enclosing photo, to J. & J. Thompson (Limited), Manchester Street, Oldham.

WANTED, an outdoor Assistant, about 24 to 26 years of age; reliable Dispenser, accustomed to good class of business, and of good address. Apply, with references, height, age, and salary required, to J. C. R., 18 Burdow Terrace, Newcastle.

EGYPT.—Assistant wanted; Minor qualification; must speak French; passage paid; 3 years' agreement; salary 1st year, £14 per month, 2nd £16, 3rd £18. Apply, Export Department, S. Maw, Son & Thompson, 7 to 12 Aldersgate Street, E.C.

ASSISTANT; qualified; aged about 24; indoors; one accustomed to Dispensing. Applicant to state full particulars as to age, height, salary, experience, &c., and enclose carte (which will be returned), to E. R., Springfield Pharmacy, St. Leonards.

JUNIOR Assistant (indoors), for good Country Retail and Dispensing; good Counterman, and obliging. Apply, stating age, salary, experience, height, and enclosing carte (to be returned), to John Gilling, Pharmaceutical Chemist, Saffron Walden.

TO Students.—Board and Apartments can be obtained at a Chemist's in a central position in town for 15s. per week in consideration of a few hours' attendance in the business each week. 42/31, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ACTIVE Junior wanted, at once, for Light Retail, Prescribing, and Dispensing business. Apply, stating age, height, salary (indoors), name referee, and enclose photo (to be returned), must write a neat and legible hand, to Battin, Chemist and Dentist, Tunbridge Wells.

DISPENSER to Surgeon, Sussex; wanted at once, a good Dispenser and Bookkeeper in a large practice; must be absolutely steady, honest, and perfectly reliable. Call Saturday between 12 and 1, at 300 High Holborn, or write to C. H. Huish, 31 Mundania Road, Honor Oak, S.E.

WANTED (indoors, 30 miles from London), 2 smart good all-round Juniors, of good personal appearance and address, in a first-class Dispensing and Light Retail, with Mixed Agricultural trade. State age, height, salary required, and enclose references, to Dixon, Chemist, East Grinstead.

WANTED, active Junior, outdoors, for General Retail; no Dispensing; must be quick and reliable; good opportunity of acquiring a knowledge of Dentistry; enclose photo (to be returned). Apply, stating age, height, and salary, to E. B. Morgan, 112 Neechells Park Road, Birmingham.

IMMEDIATELY, Minor; 21 to 24; knowledge of Homoeopathy preferred; accustomed to Prescribing; capable of taking sole charge when required; indoors. State age, height, salary, and references, with photo (to be returned) in first letter to "Minor," 285 Oxford Street, Manchester.

FOR the East.—First-class Assistant, qualified, with good all-round experience, capable of performing simple analyses and experienced in Aërated-water making, for vacancy in large pharmacy in the East; liberal terms for a suitable man. By letter only to Dakin Brothers, 87A Leadenhall Street, E.C.

DISPENSER and Bookkeeper wanted, at once, between 30 and 40, desiring permanency; must be an abstainer, and thoroughly reliable; salary £25 to £30 a year (indoors). Apply, with full particulars, testimonials, references, and photo, Giles Brothers & Barton, Surgeons, Staunton-on-Wye, Hereford.

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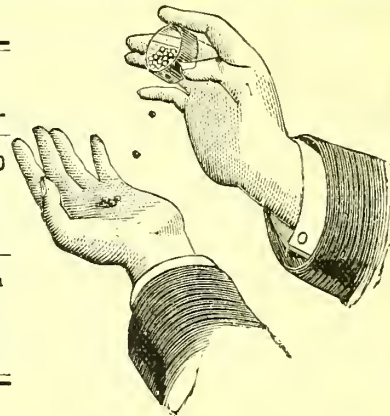
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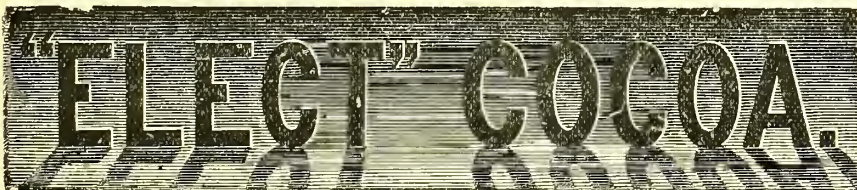
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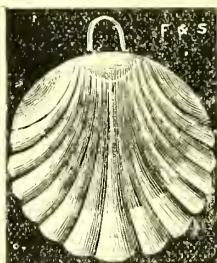
Per dozen Packets, 2/- In 12-lozen lots, 22/-

Also in Rolls for Toilet Fixtures—

Of Superior Quality,

Perforated, 3/-, 3/6, 4/6 and 6/- per dozen rolls.

DISINFECTANT TABLETS



Protection against Cholera, Influenza, and all infectious diseases. For hanging on the wall to purify the air. Put up in three sizes to retail.

14.	24.	34.
Per gross .. 6/6	8/6	15/-

In cardboard boxes.

They sell freely wherever shown.

SCALLOPED EDGE SHOW BOWL.

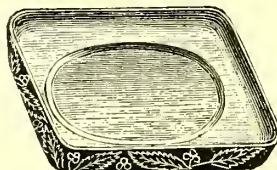


Assorted Colours.

Quite new, very special. One Size only, 10 in.

Decorated	16/6 per doz.
Plain	13/6 "

SQUARE SHOW BOWL.



Assorted Colours.

Quite new, very special. 10 in. by 10 in.

Decorated	13/6 per doz.
Plain	10/6 "

NEW PULP BOWL.



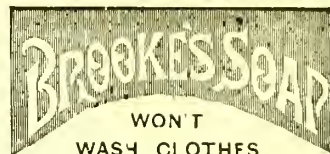
This will be found a valuable addition to the Surgery, and will be welcomed by Chemists, Dentists, Apothecaries, &c., for washing measures, glasses, &c. Finished in neat colours. 10 in. round.

Per doz. 8/3

SPONGES.

A large consignment just to hand.

WRITE FOR PARTICULARS.



WON'T
WASH CLOTHES.

Stock held in London, Bristol, and Dublin.

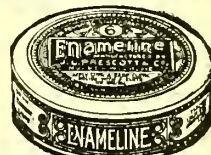
Cases of 100 Large Bars	25/-
60	15/-
Boxes of 48 Half-Bars	6/3

If any difficulty in obtaining in any part of the world, write Sole London Consignees—

"FORDHAMS LONDON."

"ENAMELINE."

THE MODERN



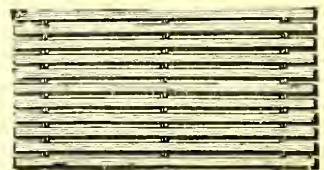
STOVE POLISH.

We are prepared to say that "Enameline" as a Stove Polish has no equal. It is a paste, and is always ready for use. It requires no mixing, is absolutely free from dust, and retains its Jet Lustre any length of time.

Prepared in Large Tin Boxes, to retail 24/-, per gross 20/- net.

ROLL-UP WOODEN MAT.

For Laundries, Baths, Washhouses, Garden Paths, Lavatories, Rooms, Coach-houses, Greenhouses, and all Damp Places, &c., &c.



OPEN



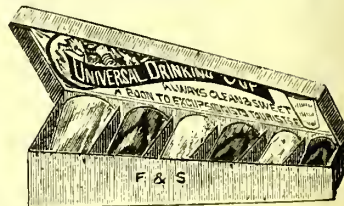
CLOSED

Three-quarter inch thick and will roll up. Two sizes kept in stock:—
24 x 15, 9/6; 30 x 15, 12/- per doz., net.

Or may be had in continuous lengths for Passages, Halls, &c., and is an excellent article for laying down from Front Door, across the pavement, to Carriages; or loading Vehicles in wet weather.

Width, 24-in. ..	2/- per yard run, net.
" 30-in. ..	2/6 "

DRINKING HORNS.



A new and attractive arrangement of Drinking Horns; 6 in handsome box assorted, small to large. In three colours.

White Horn	per box 2/9
Clear	2/6
Mottled	3/-

W. B. FORDHAM & SONS, LIMITED, 36 to 40 YORK ROAD, LONDON, N.

Telephone Number, 1852.

Telegraphic Address—CHEMICUS LONDON.

ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

NOTE—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

Foot of Page	Foot of Page	Foot of Page	Foot of Page
Allen & Hanburys <i>Cover</i>	Cocking & Co. 26	Isaacs & Co. 53	Quelch, H. G. 56
Anglo-American Drug Co. (Lim.) 47	Compagnie Française 21	Izal. 50	Raines & Co. 45
Apollinaris Co. <i>Cover</i>	Cox, A. H., & Co. 43	Jeyes' Sanitary Compounds Co. 52	Richardson, J., & Co. (Leicester) Lim. 39
Arthur & Co. 42	Crawshaw, E., & Co. 55	Johnson & Jørgensen 58	Ricksacker, W. 27
Assistants Wanted and Wanting Situations .. <i>Coloured Supplement</i>	Cresswell Bros. & Schmitz 4	Jones & Co. 50	Robinson, B. 21
Barclay & Sons (Lim.) 45	Crocker & Co. <i>Coloured Supplement</i>	Keene & Ashwell 62	Rookledge, F. E. 53
Barnett & Foster 12	Crowden & Garrod 11	King's College. 8	Rowntree & Co. 21
Barrett, A. A. 54	Crown Perfumery Co. 23	Laughland, Mackay & Baker .. 51	Rylaids, D. in (Lim.) 13
Barron, Harveys & Co. 41	Davidson & Gray 54	Leath & Ross 3	Sanitas, The Co. (Lim.) .. <i>Text</i> 508
Beecham, T. 46	Day & Sons <i>Text</i> 508	Levermore, Ang., & Co. 54	Santer's Star Remedies Co. 46
Beechdoe & Co. <i>Coloured Supplement</i>	Dodge & Olcott 33	Lewis, M. 65	Schmidt, Karl 48
Berend, O., & Co. 9	Doria Biscuits 18	Lewis, H. K. 10	Seahury & Johnson 61
Bieber, J. D. 49	Duncan, Fuller & Co. 55	Liverpool School 8	Sheffield College 8
Binghamton Oil Co. 53	Durrant & Co. 54	Lloyd, T. H., & Co. 37	Silicated Carbon Co. <i>Text</i> 508
Blair's Pills 54	Dusseck Bros. 50	Lothhouse & Saltmer 40	Silverlock, H. 6
Blondeau & Co. 5	Edwards & Co. 72	Lorenz, H. 54	Singletton & Cole (Lim.) 18
Boehm, Fredk. 43	Elliman, Sons & Co. <i>Text</i> 508	Lorimer & Co. 43	Snowdon, Son & Co. 53
Boisy <i>Text</i> 508	Exchange Column 10	Mackenzie, W., & Co. 7	Solport Bros. 9
Boord & Son 30	Fellows' Syrup 31	Mackay, Mackay & Co. 50	Southwell & Co. 18
Botwright & Grey 53	Ferris & Co. 48	Marriott, E., & Co. 28	Sozio & Andrioli 26
Brathry & Hinchliffe (Lim.) 17	Fink, F., & Co. 54	Maw, S., Son & Thompson 30	Stern, G. & G. 20
Brett, F. J. <i>Coloured Supplement</i>	Fletcher Bros. & Co. 54	Mawson Filter Co. 48	Stokes' Check Till Co. (Lim.) .. 7
Brooks, T. 20	Fletcher, Fletcher & Stevenson 54 <i>Text</i> 508	Maxime & Co. 53	Strong, Christy 53
Browning & Co. 56	Ford, Shapland & Co. 6	May & Baker <i>Cover</i>	Surrey Packing Co. 29
Brunner, Mond & Co. (Lim.) 33	Fordham & Sons (Lim.) 22	May, Roberts & Son <i>Cover</i>	Tasmanian Eucalyptus Co. 51
Brunner, Mond & Co. (Lim.) 33	Fonkes & Co. 23	Meadowcroft & Co. 16	Taylor Bros. 7
Burgess, E., jun. 45	French Hygienic Co. 16	Mellin's Food <i>Text</i> 508	Thiellay, E. H. 54
Burgoyne, Burhidges & Co. 41	Fuerst Bros. 40	Melin, C. 53	Toogood, W. 56
Burroughs, J. 33	Glendenning, W. <i>Text</i> 508	Metropolitan College. 8	Treatt, R. O. 23
Burroughs, Wellcome & Co. 33, 34	Goodall, Backhouse & Co. 13	Miller, A., & Co. 20	Truefitt, H. P. (Lim.) 28
Burton & Sons 41	Graf, F. 54	Moenich, O., & Co. 29	Tyrer, P. 19
Bush, W. J., & Co. 14	Grossmith, Son & Co. 29	Morris & Callard 40	Tyrer, T., & Co. 41
Businesses for Disposal <i>Coloured Supplement</i>	Guest & Co. 19	Mulhens, F. 25	Vaccine Association 18
Cadbury Bros. <i>Cover</i>	Harroline Pill Co. 46	Mumford, G. S. <i>Text</i> 508	Walker, Troke & Co. 53
Calvert, F. C., & Co. 53	Heald, A. J. 54	Natali & Co. 10	Washington Chemical Co. 40
Central School 8	Hearon, Squire & Francis 34	Ness & Co. 54	Watson, J., & Son 42
Chancellor & Co. 57	Hehden, W. C. 50	Nestle, H. 19	Watson & Wates 55
Chemists' Aerated and Mineral Water Association (Lim.) 15	Hertz & Collingwood 60	Newsome, C. 65	White, Fairchild & Co. 54
Christy, T., & Co. 54	Hildesheimer & Co. 7	Orridge & Co. <i>Coloured Supplement</i>	Wills & Wootton 8
Clark, S., & Co. 57	Hirst, Brooke & Hirst 23	Pascall, J. 20	Witrofsky, E. 23
	Hooper, B., & Co. 42	Pears, A. & F. (Lim.) 35	Wright, Layman & Umney <i>Text</i> 508
	Hopfr, R., & Co. 54	Pearss & Meeking 19	Wyeth, Jno., & Bro. 53
	Horn, O. E. 42	Peterson M., & Co. 29	Youldon, E. 58

CLASSIFIED LIST OF ALL ADVERTISERS

Where Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other issues of this month.

ACETIC ACID

Fuerst Bros.
Lorenz, H.
Morris & Callard (Salts)
ACIDS
Boulton, J., & Co., Lim.
Type & King

ADVERTISING

SPECIALITIES
Hildesheimer, A.
Lawton, J. W. | Sears, F. W.

AERTD & MINRLS

Apollinaris Co.
Barnett & Foster
Burroughs, Wellcome & Co.
Chemists' Aerated Waters Association, Lim.
Ellis & Son (Rathin)
Idrie & Co., Lim.
Ingram & Boyle
Jewsbury & Brown
Johannis Co.
Kimmond & Co.
Mulle & Co. (Eourne)

BITTO PLANT

[See STENOGRAPH AND EMBROIDERS.]
Barnett & Foster
Brathry & Hinchliffe, Lim.
Evans, Sons & Co.
Gueret Freres
Meadowcroft & Co.
Rylands, Dan, Lim.
Tyler, Hayward & Co.

AGENCIES ABROAD

Australian Drug Co.
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [(N.Z.)]
Peake, Allen & Co.
Prosser, Taylor & Co.
Soul, W. H., & Co.
ALKALOIDS
Howards & Sons (Cinchona)
Smith, T. H., & Co.

ALMANACKS

Faulkner, C. W., & Co.
Ford, Shapland & Co.
McKenzie, W., & Co.
Silverlock, H.
Townsend, J.

AMMONIA

May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.
APPARATUS
Bennett, Sons & Shears
Berend, O., & Co.
Christy, T., & Co.
Hicks, J. J.
Orme, J., & Co. (Scientific)
Poths, H., & Co.

BAKING POWDER

Goodall, Backhouse & Co.

BANDAGES

Bailey, W. H., & Son
Robinson & Sons
Schmitz, F., & Co.
Wood, Vincent

BATH & FLESH

GLOVES

Barclay & Sons, Lim.
Chemists' Association, Lim.
Maw, S., Son & Thompson
Partison, G. | Solport Bros.
Wood Vincent

BEEF EXTRACT

Liquor Carnis Co., Lim.

BICARB. SODA

Brunner, Mond & Co., Lim.

BISMUTH PREP.

Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. | Tyrer, T., & Co.
White, Alfred, & Sons

BOOKS

Harradine, Dr. M. D.
Lewis, H. K. | Murray, Jno.
Silverlock, H.
BORAX
Howards & Sons
Mack's Staroh

BOTTLES

Airo & Calder Bottle Co., Lim.
Barnett & Foster
Barrett, R. H.
Brathry & Hinchliffe, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Isaacs & Co.
Johnson & Jørgensen
Kilner Bros.
Maw, S., Son & Thompson
Poths, H., & Co.
Rylands, Dan, Lim.
Toogood, W.
"W" Brand Bottles
Youldon, E.

BOXES

Austin & Co. (Cardboard)
Ayrton & Saunders
Crowden & Garrod
Evans, Sons & Co.
Kent, G. B., & Sons
Kilner Bros. | Maxims & Co.
Robinson & Sons
Rylands, Dan, Lim.

BRUSHES

Crowden & Garrod
Evans, Sons & Co.
Kent, G. B., & Sons

BUNSEN BURNERS

Berend & Co.

BUTTER COLR., &c.

Boulton, J., & Co., Lim.
Crawshaw & Co.
Hartick & Co., Lim.
Tomlinson & Hayward

CACHOUS

Bessdale & Co.
Blyth & Co.
Jackson, Thos. | Pascall, J.
Raines & Co. | Warrick Bros.

CAMPHOR

Fuerst Bros. | Howards & Sons
May & Baker, Lim.

CAPSULES

Denoual, J. (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hartick & Co., Lim.
Hilroyd, J., & Co., Lim (Moulds)
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Lothhouse & Saltmer
Richardson, John, & Co. (Leicester), Lim.

CARBOLIC ACID

Calvert, F. C., & Co.
Mason, C. E., & Co.

CSCA SAGRADA

Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co. | Moss, J., & Co.

CASTOR OIL

Allen & Hanburys
Christy & Co. (Aromatization)
Fuerst Bros.

CATALOGUES & PRICE LISTS

Burroughs, Wellcome & Co.
Gibson, R., & Sons
Lorimer & Co.
Maw, S., Son & Thompson
Rylands, Dan, Lim.
Newbery, F., & Sons
Sanger & Sons

CERESINE WAX

Boehm, Fredk.

CHECK TILLS

National Cash Till Co.
Patent Voucher Check Till Co., Lim.
Stokes, G. R., & Co., Lim.

CHEMICALS

Boehm, Fredk.
Bohringer, O. F., & Sohne
Boulton, J., & Co., Lim.
Brunner, Mond & Co., Lim.
Fletcher, Fletcher & Stevenson
Fuerst Bros.
Goodall, Backhouse & Co.
Hill, A. S., & Son
Hodgkinson, Treacher & Howards & Sons (Pharm.)
Levermore, Aug., & Co.
Lothhouse & Saltmer
Lorenz, H.
May & Baker, Lim.
Morris & Callard | Moss & Co.
Smith, T. H., & Co.
Type & King | Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHEST PROTECTRS

Chemists' Association, Lim.
Hockin, Wilsdon & Co.
Liverpool Patent Lint Co.

CHLOR. OF LIME

Government Sanitary Co.
National Chemical Co.

CHLOROFORM, &c.

Arthur & Co.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Son
Smith, T. H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

CHLORODYNE

Bylton, Astley & Co.
Davenport (Browne's)
Towle, A. P., & Son
COCA & CHOCOLATE
Cadhury Bros., Christy & Co.
Compagnie Française
Kowitree & Co.

COCA WINE

Armbricht, Nelson & Co.
French Hygienic Soc.
Stephen Smith & Co. (Hall's)

COCAINE-HYDRO.

Howards & Sons

COD-LIVER OIL

Allen & Hanburys
Ecclesdale & Co.
Burroughs, Wellcome & Co.
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Robinson & Co.
Smith, T. & H., & Co.
Woolley, Sons & Co.

COFFEE

Symington, T., & Co. (Coffee Essence)

COLAPSEL TUBES

Betts & Co.

COMP. MEDICINS

Allen & Hanburys
Bylton, Astley & Co.
Burroughs, Wellcome & Co.
Fuerst Bros.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard & Co.

CONCENT. LIQRS.

Fletcher, Fletcher & Stevenson
Lloyd, T. Howard & Co.

CORN CURES

Chong, D., Pattison, G.
Solpore Bros.
Warrick Bros.

COTTON WOOL

Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons

CRISP LINSSEED

Mumford, S. G.

DENTIFRICES

Bailey's Toilet Co.
Beecham, T.
Bromley, H., & Co.
Dorothy Dentifrice Co.
Hanson, C.
Jamieson, W., & J.
Jewsbury & Brown
Lekeman, J. J.
Quelch, H. C.
Ricksecker, Geo.
Rivettshaw & Co.
Stevens, P. A.
Sutton, O., & Co.
Thompson & Capper
Warrick Bros.
Woods, W. T. (Arecia Nut)

DENTISTRY

Browning, A. J.

DISINFECTANTS

Barclay & Sons, Lim.
Bylton, Astley & Co.
Brooks, T.
Burroughs, Wellcome & Co.
Calvert, F. G., & Co.
Frydala, J. W., & Co.
Duseek Bros. & Co.
Fletcher Bros. & Co.
Hebden, W. C.
Government Sanitary Co.
Grindley & Co., Lim.
Izal
Jeyes' Sanitary Compounds Co.
Mackey, Mackey & Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Sanitas Co., Lim.
Seabury & Johnson
Tyler, T., & Co.

DOG MEDICINES

Heald, A. J.

Ernst's Patent, Lim.

DRUGS

Hopk, H.

DRUGGISTS' SUN.

Ayrton & Saunders
Bailey, M., & Co.
Barclay & Sons, Lim.
Chemists' Association, Lim.
Chemists' Mineral Water Association, Lim.
Crowden & Garrard
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fortham, W. B., & Sons, Lim.
Foulkes & Co.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Idris & Co., Lim.
Jackson, T. & Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Quelch, H. C.
Sanger & Sons
Schutze & Co.
Tidman & Son | Toggood, W.
Tyler Rubber Co.
Wood, Vincent | Young, J.

DRYSALTERIES

Browning, J. H., & Co.

Burton, W., & Sons

DYES & C.
Ayrton & Saunders
Burton, W., & Sons
Crawshaw & Co.

EAU DE COLOGNE

Farina, J. M.
Hockin, Wilson & Co. (Farina)
Martin, Maria (Nun)
Muenich, Oscar, & Co.
Mulhens, F.

ELECTRIC APPAR.

Darton, F., & Co.
Gent & Co. | Orme & Co.

EMBOCATION

Day & Sons

ENEMAS

Barclays, Lim.

Evans, Sons & Co.

Sanger & Son

Wood, Vincent

ENGRAVERS

Corsan, J. R.

ESSENCES

Boehm, Fredk.
Boulton, J., & Co. (Lim.)
Brathby & Hinchcliffe, Lim.
Burgoyne, Burdighes & Co.
Bush, W. J., & Co.
Fletcher & Stevenson
Goodall, Backhouse & Co.
Idris & Co., Lim.
May & Baker, Lim.
Meadowcroft & Son
Newell & Mason
Rylands, Dan, Lim.
Stevens & Howell
Tyler, P. (Anchovies)
Tyler, T., & Co.
Woolley, Sons & Co.

ESSENTIAL OILS

Allen, Stafford & Sons
Barrett, A. A.
Boehm, Fredk.
Brummerstedt & Liders
Bush, W. J., & Co.
Clay, Dod & Co.
Cocking & Co. Japan Pepper
Dodge & Olcott (mint)
Evans, Sons & Co.
Hodgkinson's, Treacher & Clarke
May & Baker, Lim.
Meadowcroft & Sons
Rylands, Dan, Lim.
Sozio & Andrioli
Stevens & Howell
Syms & Co.
Treat, R. C.
Warrick Bros.
Witrofsky, E.
Wright, Layman & Umney

ETHER

Duncan, Flockhart & Co.
Howards & Sons
May & Baker, Lim.
Robbins, J., & Co.
Tyler, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS

Bickford's
Bosisto's
Drysdales, J. W., & Co.
Evans, Lescher & Webb
Fletcher, Fletcher & Stevenson
Grimwade, Ridley & Co.
Langhand, Mackay & Baker
Mackay, Mackay & Co.
Murdoch, J., & Co.
Tasmanian Eucalyptus Oil Co.
Woods & Co.

EXALGINE

Kahn, B.

EXTRACT MEAT

Armour & Co.
Bovril
Brand & Co.
Bush's Liquid Beef
Idris & Co. (Viking Co.)
Liebig Co.
Mason, G., & Co., Lim.
Wyeth, J., & Brother

EXTRACTS, FLUID

Allen & Hanburys
Burgoyne, Burdighes & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Potter & Clarke
Wright, Layman & Umney

FEEDG BOTTLES

Burroughs, Wellcome & Co.
Gibson Safe
Chemists' Association, Lim.
Evans, Sons & Co.
Hearn, Wright & Co.
Hockin, Wilson & Co.
Kilmer Bros. | Lynch & Co.
Marrion, E., & Co.
May, Roberts & Co.
Maw, S., Son & Thompson
Spence & Co.
Surrey Packing Co.

FILTERS

Berkfeld Filter Co.
Fortham, W. B., & Sons, Lim.
Mawson Filter Co.
Silicated Carbon Filter Co.

FLY PAPERS

Ford, Snapland & Co.

Strong, Christy

Tunbridge & Wright

FORMULA
Brooks, T.

FOOD (Infants' & Invalid's)

Allen & Hanburys
Benzer's Food
Brand & Co.
Chubb, H. B.
Evans, Sons & Co.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liebig Co.
Lorimer & Co.
Mason, G., & Co., Lim.
Mellin's Food
Nestlé, H.
Ridge, Dr.
Tyler, P.
Viking Food Co.
Wyeth, J., & Bro.

GINGER ALE

Mills, R. M., & Co.
Ross & Sons (Lim.)

GLYCERINE

Bylton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Fuerst Bros.
Price's Candle Co., Lim.
Lloyd, T. Howard, & Co.
Watson & Sons

GOUT & RHEU-

MATIC PILLS

Bromley, C.

Prout & Harsant (Blair's)

GRANULAR PREP.

Bishop, A., & Sons
Bylton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Wright, Layman & Umney

GUM

Fink & Co. (Arabic, &c.)

HAIR PREP.

Anglo-American Drug Co.
Chesebrough Co. (Lim.)
Edwards & Co.
Horn, O. E.
Ricksecker, Theo.
Truebitt, H. P., Lim.

HERB BEER EXTS

Newhall & Mason
Potter & Clarke
Schmidt, Karl

HOMOEOPATHIO

Epps & Co.
Keene & Ashwell
Leath & Ross
Thompson & Capper
Watson & Wates

HONEY

Evans, Sons & Co.
May, Roberts & Co.

HYPOPHOSPHITES

Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co.
Syms & Co.
Tyler, T., & Co.

INDIARUE GOODS

Tyer Rubber Co.

INHALERS

Burroughs, Wellcome & Co.
Hockin, Wilson & Co.
Spiron, Co. The
Toogood, W.

INK (See MARKING INKS)

Bewley & Draper

INSECTICIDES

Rooke, Tompitt & Co.

Steiner & Co.

JARS

Rylands, Dan, Lim.

KETCHUP

Tyler, P.

KOLA PREPRTN

Christy, T., & Co.

LARD

Ewen, J., & Sons

LIME JUICE

Evans, Sons & Co.

Lorimer & Co.

LINT

Liverpool Lint Co.

Maw, S., Son & Thompson

Newsome, C.

Robinson & Sons

LIQUEUR
Dennis Di Luggo & Co.

LITHIA
Fuerst Bros.

LOZENGES
Allen & Hanburys

Bylton, Astley & Co.

Davidson & Gray

Gibson, R., & Sons (Manfra.)

Hill & Son

Jackson, T.

Lorimer & Co.

Pascall, J.

Ramsay & Co. | Warrick Bros.

MACHINERY
Bennett, Sons & Shears

Burroughs, Wellcome & Co.

Gardner, W.

Martin Perls & Co.

Olson, A.

Pindar, J. W.

Strutters & Craig (Sifting)

Werner & Pleiderer (Knead-
ing and Sifting)

MAGNESIA
Bush, W. J., & Co.
Duncan, Fuller & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcedin)
Hill, A. S., & Sons
Washington Chemical Co.

MALT EXTRACT, &c.

Allen & Hanburys
Burroughs, Wellcome & Co.
Kepler's
Glendenning, W.
Hearon, Squire & Francis
Lorimer & Co.
Moss, J., & Co.
Raines & Co.
Richardson, John, & Co. (Lel-
cester), Lim.
Robinson & Co.

MARKING INKS

Bond, John (Crystal Palace)
(Ink and Pencils)

MEDICINE CHSTS

Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MENTHOL

Burroughs, Wellcome & Co.
Christy, T., & Co.
Cocking & Co.
Dunne, Fulk & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw, S., Son & Thompson
Tyler, P. | Vint, I. L.

MERCURIALS

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Howards & Sons
May & Baker, Lim.

Tyler, T., & Co.

METH. SPIRITS, &c.

Boora & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.

METHYLENE

Robbins, J., & Co.

MICROSCOPES

Darton, F., & Co.

Perken, Son & Rayment

MILK

Nestlé, H. (Condensed)

MORPHIA

Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

OILS, PAINTS, &c.

Browning, J. H., & Co.
Fox, W., & Sons
Pinchin, Johnson & Co.

OINTMENT BASES

Burges, E., J.
Burroughs, Wellcome & Co.
(Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lanoline
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leice-
ster), Lim. (Anaspaline)

OPIUM

Hopk, R.

OPTICIANS

Botwright & Grey

Darton, F., & Co.

OTTO OF ROSE

Fuerst Bros.

Warrick Bros.

Witrofsky, J. R.

OXIDE OF ZINC

Hubbuck, T., & Son, Lim.

PAPAIN

Kuhn, B. (Dr. Finkler)

PAT. MEDCNS, &c.

Anglo-Amer. Drug Co., Lim.
Akinson & Barker (Infant
Preserv.)

Barclay & Sons, Lim.

Beecham, T. (Pills)

Bow's, Dr. (Liment)

Bromley, C. (Gout and Rheu.)

Chemists' Association, Lim.

Clarke's Blood Mixtures

Congreve, G. F.

Edwards & Son

Evans, Lescher & Webb

Fassett & Johnson

Fenning (Powders)

Gondall, Backhouse & Co.

Holloway (Pills and Oint.)

Hovenden & Sons

Lalor (Phosphoric, &c.)

May, Roberts & Co.

Newbery, F., & Sons

Popular Remedies Mfg. Co.

Roberts & Co. (Foreign)

Rooke, Dr., Lim.

Southall Bros. & Barclay

Sutton, W., & Co.

Wilson, A. (Bunter's Nervine)

PEPSIN, &c.

Armour & Co.

Burroughs, Wellcome & Co.

Chessaing & Co.

Fletcher, Fletcher & Stevenson

Kuhn, B.

Lorimer & Co.

Newbery, F., & Sons (Ingluvin)

Stern, C. & G.

Warner & Co. (Ingluvin)

PEPPERMINT OIL
Bush, W. J., & Co.
Cocking & Co.
Stevenson & Howell

PORCELAIN GDS

Toogood (E.c. Pote, regist.)

POULTRY FOOD

Spratt's Patent, Lim.

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Corsan, J. R. (Glass)

Ford, Shapland & Co.

Hildesheimer, A. (Colour)

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Taylor Bros. | Townsend, J.

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Stern, G. & G.

QUININE SALTS

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Howards & Sons

Zimmermann, A. & M.

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RENNET

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RUBBER

Maw, S., Son & Thompeon

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Victoria Rubber Co.

SACCHARIN

Allen & Hanburys

Burroughs, Wellcome & Co.

SALICIN

Macfarlan & Co.

Smith T. & H., & Co.

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Tyrer, F.

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Hovenden & Sons (Euxels)

Lloyd, Mre. A. S. (Euxels)

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Jeyes'Sanitary Compounds Co.

Tomlinson & Hayward

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Davis, Fredk.

Liverpool School of Pharmacy

London Homeopathic and

Medical School

Manchester Col. of Pharmacy

Masou College

Metropolitan Coll. of Pharmacy

Middlesex Hospital Medical

School

Northern School of Pharmacy

Owens College

Royal College of Science

School of Pharmacy

Sheffield College of Pharmacy

South London School of

Pharmacy, Lim.

St. Mary's Hospital School

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Westminster College

Will. W. W.

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Potter & Clarke

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Evans, Sons & Co.

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May, Roberts & Co.

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Bowling & Govier

Bygrave, J. & W.

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Natali & Co. | Natali, E.

Poths, H., & Co.

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Bronley, H., & Co.

Calvert, F., & Co.

Cook, E., & Co.

Dodd Bros.

Fordham, W. B., & Sons, Lim.

Jeyes'Sanitary Compounds Co

Martin, Perls & Co.

Muhlen, F.

Pears, A. & F., Lim.

Price, Napoleon, & Co., Lim.

Wright, Layman & Umney

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Evans, Sons & Co.

Peterson, M., & Co.

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Chancellor & Co. (Mack's)

Crichtley (Glass) [Double]

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Clark, S., & Co., Lim.

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Blyton, Astley & Co.

Fletcher, Fletcher & Stevenson

Gibson, R., & Sons

SUGAR OF MILK

Boehm, Fredk.

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May & Baker, Lim.

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Bailey, W. H., & Son

Barclay & Sons, Lim.

Brady & Martin

Cocking, J. T.

Eschmann Bros. & Walsh

Hartree & Co., Lim.

Haywood, J. H.

Liverpool Patent Lint Co.

Macfarlan, J. F., & Co.

Maw, S., Son & Thompson

Powell & Barstow

Quelch, H. C.

Richardson, John, & Co. (Lst-

cester), Lim.

Robinson & Sons

Schutze, F., & Co.

Tyler Rubber Co.

Victoria Rubber Co.

Wood, Vincent

SYPHONS

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Bratby & Hinchliffe, Lim.

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Idris & Co., Lim.

Kilner Bros. | Melin, C.

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Fletcher, Fletcher & Stevenson

Idris & Co., Lim. [(Liquors)

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Corsan, J. B. (Advertising)

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Gt. Tower St. Tea Co.

Pearse & Meeking

TEETHING PADS

Marriott, E., & Co.

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Barclay & Sons, Lim.

Darton, F., & Co.

Evans, Sons & Co.

Hicks, J. J.

Newberry, F., & Sons

Perken, Son & Rayment

TINCTURES

Bieber, J. D.

Evans, Sons & Co.

Hewlett, O. J., & Son

TINS & CANISTERS

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Singleton & Cole (Lim.)

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Allen & Hanburys (Chirisma)

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Dee Oil Co., Lim. [(Lanoline)

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Hovenden & Sons

Lorimer & Co.

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Rickacker, Theo.

Truebitt, H. P., Lim.

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Jewsbury & Brown

Sutton, C., & Co. (Block)

Wilson, A. (Runter's)

Woods, M. (Aerea)

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TRUSSES

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Evans, Sons & Co.

Haywood, J. H. | Wood, V.

URETHANE

Howards & Sons

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VACCINATION

Vaccine Association (Lymph)

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Crocker, G. B., & Co.

Orridge & Co.

VASELINE

Chesebrough Co.

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Day, Son & Hewitt

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James, W. H. (Blisters)

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Lorimer & Co.

Rookledge, P. E.

Spratt's (Dogs)

Walkers, Troke & Co.

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Blondeau & Cie.

WEED KILLER

Smith, Mark, Lim.

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Allen, Stafford, & Sons

Bain Bros.

Barron, Harveys & Co.

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Burgoyne, Burdidge & Co.

Bish, W., & Co.

Bush, W. J., & Co.

Clay, Dod & Co.

Evans, Sons & Co.

Evans, Lescher & Webb

Faseeth & Johnson

Farris & Co.

Fox, W., & Sons | Graf, F.

Goodall, Backhouse & Co.

Harker, Stagg & Morgan

Heaton, Squires & Francis

Hewlett & Son

Hill, A. S., & Son [Clarke]

Hodgkinson, Treacher

Lloyd, T. Howard, & Co.

Lofthouse & Saltmer

Macfarlan, J. F., & Co.

Murdoch, J. R., & Co.

Potter & Clarke

Richardson, J., & Co., Lim.

Sykes & Co.

Thompson & Capner

Walkers, Troke & Co.

Willows, Francis & Butler

Woolley, Jas., Sons & Co.

Wright, Layman & Umney

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Armbricht, Nelson & Co. (Gosa)

Burrough, J.

Coleman & Co., Lim.

French Hygienic Socy. (Gosa)

Goodall, Backhouse & Co.

Hirst, Brooke & Hirst, Lim.

Idris & Co., Lim. | Jackson, T.

Miller, A., & Co. (Orange)

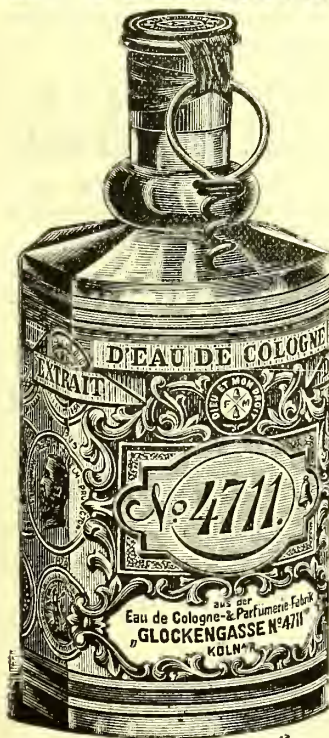
Robinson, B.

Smith, S., & Co. (Orange)

MÜLHENS' ORIGINAL No. 4711 BRAND

OF

EAU DE COLOGNE



The Gentlewoman writes as follows:—"Those of us who are connoisseurs in this matter of perfume know how greatly the various so-called Eaux de Cologne vary, and are well acquainted with the superiority of the '4711' make over all others. This possesses an unequalled degree of refreshing fragrance, is at the same time both stronger and more delicate, and is not only better, but more lasting than others."

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The World says:—"Anyone desirous of getting a thoroughly genuine Cologne cannot do better than send for a bottle of the '4711' double extract. Once having used it, repetition is a foregone conclusion."

Lady's Pictorial says:—"Its quality is absolutely the best, while for purity and lasting effects it has no rival. . . . We can most cordially advise all our readers to make a point of obtaining the No. '4711' brand."

Truth finds it "really deliciously sweet."

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Do not omit to mention the "No. 4711," and the Blue and Gold Printed Label, which commands a higher Retail Price than any other Brand whatever.

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ESTABLISHED A.D. 1757.]

GRASSE (Alpes Maritimes), FRANCE.

Neroly, Lavender, Geranium, Orris, Patchouly, Thyme, Rosemary, Spike, Santal, &c.

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FLOWER POMADES at the highest possible Saturation. ROSE & ORANGE FLOWER WATER, Sweet Almond Oil.

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Musk Civet Ambergris Attar - of - Rose

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Wholesale
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APPLICATION

ON

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COCKING'S JAPAN OIL OF PEPPERMINT.

Our Extra Steam Refined Oil is trehly distilled and twice rectified by steam, by an entirely new process and in apparatus of our own invention, by which all those polymeric products of a tarry and resinous nature which are objected to by some consumers are extracted. It is of water-white colour retaining its full aroma, pungency, and strength, and guaranteed absolutely pure and soluble in spirits of wine.

COCKING'S JAPAN MENTHOL CRYSTALS.

Our Extra Steam Refined quality is in firm, hard, dry, and snowy-white crystals, entirely free from oily contamination, and therefore of the highest melting-point. As the original and largest manufacturers in the world of the true Japan Menthol, we guarantee our brand to be absolutely pure. Beware of substitutes. For full particulars, therapeutic uses, &c., see special circulars, to be had on application.

Sole Agents—JOHN BATT & CO., 39 OLD BROAD ST., E.C.

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AS USED AT ALL THE GOVERNMENT MUSEUMS

For almost any Substance, from Glass and China to Leather, Wood, or Iron.
Sold in Bottles at 6d. and 1s. (equal to three of the smaller).

FOULKES' TOILET & NURSERY POWDER

Impalpable and Delicately Perfumed.

Sold in Boxes at 6d. and 1s. Wholesale at the Patent Medicine Houses and Druggists' Sundriesmen, or from

FOULKES & CO.,
CHEMISTS,
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RAW MATERIALS FOR PERFUMERS, SOAP-MAKERS AND WHOLESALE DRUGGISTS.

Essential Oils, Perfumed Oils,
Pomatus, Floral Waters, Olive Oils.

LONDON AGENTS—

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60 MARK LANE, E.C.

RICKSECKER'S PERFUMES

At the WORLD'S FAIR.

An Extract from the Special Report of "THE CHEMIST AND DRUGGIST," July 29, 1893.

PERFUMES form one of the most attractive features in the ground-floor section. A prominent and most artistic exhibit is that of THEO. RICKSECKER, of Maiden Lane, New York, which occupies a corner of the aisle as we approach from the north entrance. Here there is a series of eight cases decorated in green enamel and gold, forming a kind of wedge.

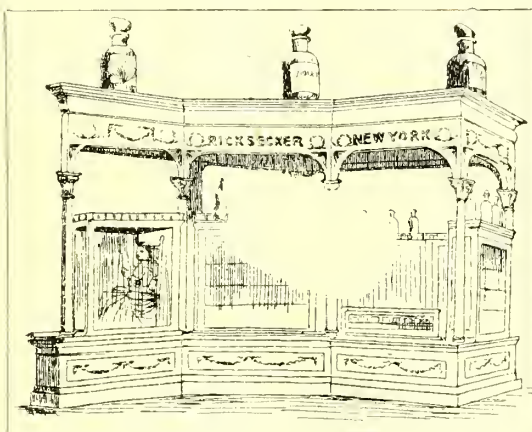
The apical case contains a figure of the woman most revered by all Americans—Martha Washington, the mother of the Republic. This figure is modelled in wax, and is, we believe, a true likeness. Martha Washington was a charming and lovely woman, and Mr. Ricksecker has not failed to do her beauty justice, for the dressing of the figure is as tasteful and elegant a costume as would serve for a royal wedding. This unique feature naturally attracts attention to the exhibit, and once the visitor begins to inspect it he finds many things to interest him.

There is a charm about the Ricksecker perfumes which is unusual: they are elegantly put up, both the shapes of bottles and the style of labels being quite *sui generis*. This is particularly noticeable in such perfumes as lavender-Cologne, sweet clover, and many others which might be named. The perfumes are displayed in magnificent vases and flasks as well as in the usual bottles for retailing, and they are set off by a selection of solid perfumes (sachets, &c.), which are also of elegant get-up.

In connection with these perfumes we may mention that the syndicate having the exclusive sale of per-

fumery at the Fair selected them as the only kind to be sold there, and the company which purchased the concession for selling perfumery through machines use them only in the 200 machines on the World's Fair grounds.

Besides perfumes the exhibit contains a good selection of toilet-preparations, such as tooth-powders, face-powders, reviving-salts, and soaps. There is a 165-lb. block of Ricksecker skin-soap on show which looks just like marble, and which, we noticed, was always dry whatever the state of the weather might be. This is a distinct innovation in toilet-soap, for it eschews all the characteristics which are generally taken to imply attractiveness. For instance, it is not brightly coloured, nor is it scented—the oleaceous base is purely vegetable and in saponification the amount of alkali is rigidly hit off, and by subsequent treatment the soap is brought to a condition of strict neutrality. In appearance the soap looks well, for it



is milled five times, so that it comes out almost cream in colour, and the odour is not unpleasant. It gives a smooth but not abundant lather which can lie upon the skin for a long time without producing irritation, and its detergent qualities are excellent.

It will be noticed from the sketch that Mr. Ricksecker's exhibit is surmounted by three gigantic bottles of perfume, and we ought to add that the cases are so arranged as to form an office within which the attendant can receive visitors, who also have the privilege of writing letters in the office.

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THEO. RICKSECKER, MAIDEN LANE, NEW YORK CITY.

English Agents—LYNCH & CO., LIM., Aldersgate Street, LONDON, E.C.

E. WITROFSKY,

Drug and Chemical Merchant,

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PURITY GUARANTEED.

Oleum Absinthii, Amygdalæ Dulcis, ditto Essent., Anisi (H. & W.), Bergamotæ, Caryophylli, Cognac, Coriandri, Geranii (Vimard & Co.), Iridis (Vimard & Co.), Juniperi, Lavendulæ, Limonis, Menth. Pip. (H. G. Hotchkiss), Pini Pumilionis, Sylvestris, Rosmarini, &c., &c., &c.

OTTO OF ROSE (Pure Virgin).

SPECIALITIES:—

CARAMELINE (substitute for Burnt Sugar). 20 times stronger than Caramel.

SOLUBLE ESSENCE OF ORRIS (Maubert Fils & Vimard).

CONCENTRATED PERFUMES, POMADES, FLOWER-WATERS.

Carbolic Acid, Liquid, 25 per cent.

Carbolic Acid, „ 50 „

Carbolic Acid, Liquid, 95 per cent.

Carbolic, Crystal, 35° to 70°.

By Royal  Letters Patent.

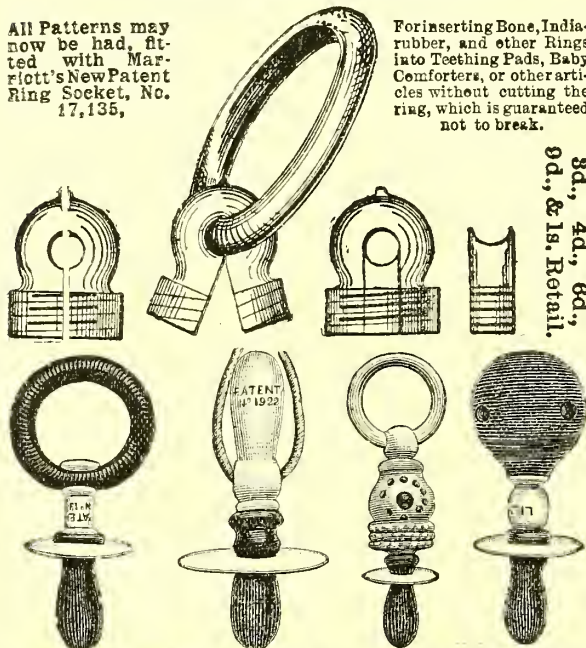
THE TEETHING PADS TO SELL. THE "LILY" BABY COMFORTER.

The teats are seamless, and always retain their proper shape.
THE CHILD CANNOT POSSIBLY IMBIBE AIR.

All Patterns may now be had, fitted with Marriott's New Patent Ring Socket, No. 17,135,

For inserting Bone, India-rubber, and other Rings into Teething Pads, Baby Comforters, or other articles without cutting the ring, which is guaranteed not to break.

3d., 4d., 6d.,
9d., & 1s. Retail.



Patentees and Manufacturers, **E. MARRIOTT & CO., HASTINGS.**

FOR OTHER PATTERNS SEE 1893 DIARY PAGE 295.

H. P. TRUEFITT'S SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-

10/6, 21/-

Egg Julep, 2/-, 4/-

CONCENTRATED

Egg Julep, 2/6,

5/-, 10/6.

Golden Fluid,

10/6, 21/-

EUXURON,

1/6.

&c.

Stimulating Lotion, 5/-,

10/6.

Astringent and Tonic

Lotion, 5/-, 10/6.

Quinine and Arnica

Hair Wash, 3/6,

5/-, 10/6, 21/-

Arnica Wash,

3/6, 5/-,

10/6.

&c.

EUCHRISMA.
Combines in one clear fluid every valuable component both of a Hair Grease and Wash, 3/6, 5/-, 10/6, 21/-.

EAU RACINE.
For restoring the original colour of Grey Hair; superior to all other restorers, being perfectly simple in its composition. Price 6/-.

An elegant Preparation for the Hair and Beard.
Price 2/6, 3/6, 5/-, 10/6, 21/-.

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(BY ROYAL LETTERS PATENT.)

PRICE ONE SHILLING.

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WORLD-WIDE POPULARITY.

THE DELICIOUS PERFUME

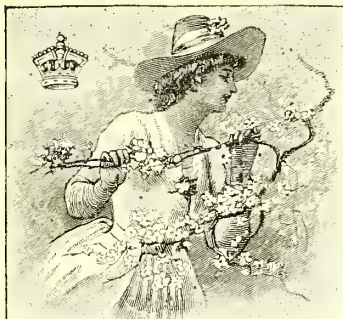
CRAB-APPLE BLOSSOMS.

Crab-Apple Blossom
Toilet Water,
24/- and 36/- doz.

Crab-Apple Blossom
Poudre de Riz,
21/- doz.

Crab-Apple Blossom
Sachets,
12 6 doz.

Crab-Apple Blossom
Soap,
16/- doz.



These renowned Smelling
Salts exhale a most de-
licious odour; they are a
refreshment to the invalid,
a delightful deodoriser and
luxury for all. By leaving
the stopper out for a few
moments a delightful per-
fume escapes which freshens
and purifies the air most
enjoyably.—*Le Toilet.*



No. 1,248.
19/- & 32/- doz.

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20/-, 36/- & 43/- doz.

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ANNUAL SALE OVER 500,000 BOTTLES.

*The New Japanese Series.***MATSUKITA DU JAPON,**

A NEW AND DELIGHTFUL PERFUME.

Matsukita Perfume	21/- and 36/- doz.
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Matsukita Poudre de Riz	21/- "
Matsukita Toilet Soaps	16/- "
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No. 1,618



No. 1,611.

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FACSIMILE OF LABEL.

A HIGH-CLASS
FLORAL EXTRACT.
VERY ENTRANCING.

Price— $1\frac{1}{2}$ -oz., 21/-; 3-oz., 40/-;
6-oz., 80/- per dozen.



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GRACIOUS PERMISSION
TO
PRINCESS MAY
(H.R.H. the Duchess of York).

J. GROSSMITH, SON & CO.

A FRAGRANT SOUVENIR

85 Newgate Street, LONDON.

GENUINE EAU DE COLOGNE

Johann Maria Farina
Gegenüber dem Laurenz Platz

2-oz., 7/6, 4-oz., 14/-; 4-pints, 21/-, pints, 42/-; quarts, 84/- per doz.
The second largest sale amongst Chemists in the U.K.

Sole Agents—OSCAR MOENICH & CO., 8 COLEMAN STREET, LONDON, E.C.

THE CHEMIST WHO DOES NOT READ
THIS WILL LOSE MONEY.

SPONGE IMPORTERS.

PIL. APERIENS, pearl-coated (3 & 4 grs.), $4\frac{1}{2}$ d. per gross.
LITTLE LIVER PILLS, ditto (1 gr.), ... $5\frac{1}{2}$ d. "

Formulae given if required. 5 per cent. discount on 50 gross lots, and 7 1/2 per cent. discount on 100 gross lots. Other Pills at equally low rates. Own formulae made up if a sufficient quantity is ordered. Cash with order.

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M. PETERSON & CO.

(ESTABLISHED 1870),

75 ST. ANNE STREET, LIVERPOOL.

FOR HOME, FOREIGN & COLONIAL MARKETS.

MAW'S MENTHOL CONES.

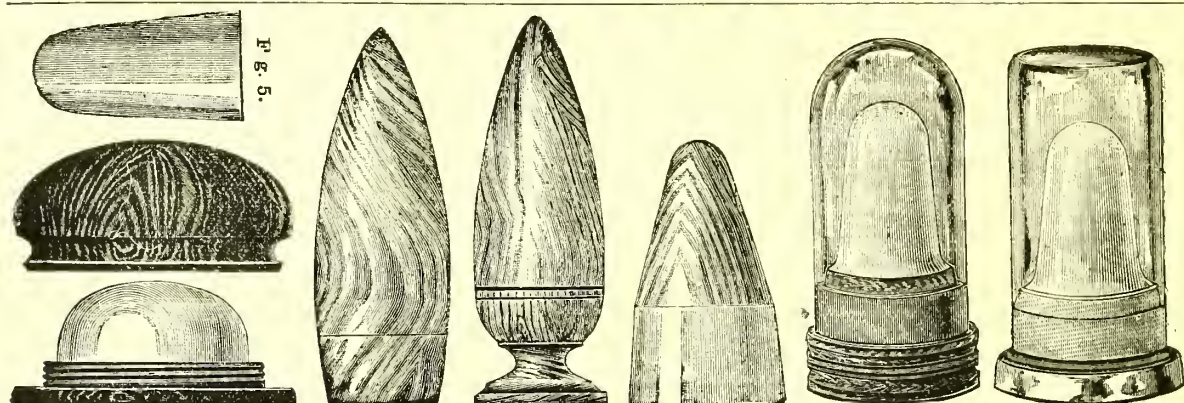


Fig. 1.

Fig. 3.

Fig. 4.

Fig. 6

Fig. 7.

Fig. 8.

Fig. 1.—In Ebony Cases, flat for the pocket	...	...	...	...	per doz.	4/6
Fig. 1.—In Boxwood Cases ditto	...	...	...	...	per doz.	2/10, 3/6, and 5/6
Fig. 3 & 4.—In Boxwood Cases	...	...	...	...	„	2/3, 3/9, and 5/9
Fig. 3.—In Boxwood Cases, with Reversible Screw	...	...	...	...	per doz.	4/-
Fig. 5.—In White Opaque Glass Jars, with Red Celluloid Caps	...	...	...	...	„	2/3 and 3/3
Fig. 5.—Mounted, in Stoppered Bottles	...	...	...	...	„	6/9
Fig. 6.—Mounted on Vegetable Ivory, in Glass Bottles, Screw Metal Caps	...	...	...	...	„	4/3
Fig. 7.—On Glass Mounts, Glass Covers	...	...	...	...	„	3/2 and 4/3
Fig. 7.—On Earthenware Mounts, Glass Covers...	„	4/6 and 7/-
Fig. 8.—On Glass Mounts, with Glass Covers	„	5/3

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The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, **FINDS THAT NO TWO OF THEM ARE IDENTICAL**, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, **IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION**, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

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"Tabloids," notwithstanding the many advantages they offer, are not more expensive than the ordinary forms in which medicines are prescribed, as they can be made at a small advance over the bulk drug. As a matter of fact, "Tabloids" are actually cheaper than ordinary pills or powders, and are dispensed by all chemists in any quantity prescribed, while on account of the absence of more or less objectionable excipients they are certainly more soluble than pills, and their compact form and perfect accuracy of strength makes them altogether superior to any form of powder, which at best is objectionable if not nauseous. Where the medicinal agent is in itself insoluble in ordinary media (such as water, diluted alcohol, &c.), the "Tabloid" of that particular agent will be found to have been compressed to such a density as will allow of rapid and thorough disintegration. Since "Tabloids" contain very accurately divided doses, they must therefore reduce any risk of error by overdose by nurses and attendants to a minimum, and their compact and portable character enables all classes of patients to carry with them, without encumbrance or inconvenience, their daily doses, even when attending to professional or business duties. The testimony of many eminent physicians both at home and abroad clearly shows that "Tabloids" have a promising future before them, and the ever-lengthening list of "Tabloids" is ample evidence of the wide appreciation and favour with which they are regarded and received by every branch of the medical profession.

SOLUBLE "TABLOIDS" OF COMPRESSED DRUGS.

(Prepared by BURROUGHS, WELLCOME & CO.)



Aconite Tinct., 1 and 5 min.
Aloin, 4 gr.
Aloin, 1/10 gr.
* Aloin Compound (Anti-Constipation) (Aloin, 1/8 gr.; Belladonna Ext., 1/8 gr.; Strych., 1/60 gr.; Ipecac., 1/16 gr.).
Alumol, 4 gr.
Ammon. Bromide, 5 and 10 gr.
Ammon. Chloride, 3, 5 and 10 gr.
Ammon. Chloride with Borax.
Antacid (Magnesia-Calcei) (Calcium Carb. Precip., 33 gr.; Magnes. Carb., 24 gr.; Soda Chloride, 1 gr.).
Antifebrin, 2 gr.

Antim. Tartrate, 1/50 gr.
* Antipyrin, 2 gr.
Antipyrin, 5 gr.
Apomorphine Mur., 1/50 gr.
Arsenious Acid, 1/100, 1/50, & 1/20
Atropia Sulph., 1/100 gr. [gr.
Belladonna Tinct., 1, 5, and 15 min.
Benzosol, 5 gr.
Bismuth Subnitrate, 5 and 10 gr.
Bismuth and Soda, 24 gr. each.
Bland's Pill, 4 gr.
Blue Pill, 3 gr.
Borax, 5 gr.
Caféine Citrate, 2 gr.
* Calcium Sulph., 1/10 gr.
Calomel, 1/10, 1/2, and 1 gr.



Camphor Comp. Tinct. (Perezoric), 2, 5, and 15 min.
Cannabis Indica Tinct., 5 min.
Capsicum Tinct., 1 min.
* Cascara Sagrada Ext., 2 gr.
* Cascara Comp. (Cascara Ext., Dry, 1 gr.; Eucosmin, 1 gr.; Nux Vomica Ext., 1/10 gr.; Hyoscyamus Ext., Dry, 1/3 gr.; Iridin, 4 gr.).
* Cathartic Comp., U.S.P. (Ext. Coloc. Co. Pulv., 12 gr.; Ext. Jalapeo Pulv., 1 gr.; Hyd. Subchlor., 1 gr.; Cambooge Pulv., 2 gr.).
Charcoal (Pure Willow), 5 gr.
Chloralamid, 5 gr.
Chloral Hydrate, 5 and 10 gr.
Cinch. Co. Tr., 30 min.
Cinch. Comp., 1 gr., 30 min.
Cocaine Mur., 1 gr.
Cocaine with Potash and Borax (see Voice).
Copper Arsenite, 1/1000 gr.
Creta Aromat. cum Opio Pulv., 5 gr. (Aromatic Confection with Opium).
Cubeb & Belladonna, Effervescent.
Cubeb Comp. (Cubeb. Pulv., 2 gr.; Hydrarg. Chlor., 1 gr.; Ext. Glycyrrh.).
Dermatol, 5 gr.
Dialysed Iron, 10 min.
Digitalis Tinct., 1 min.
Digitalin, 1/100 gr.
Duroton & Kahl, 5 gr.
Dover Powder (see Ipecac. and Opium).
* Ergotin, 3 gr.
Eucosmin Resin, 1/8 gr.
Euxalin, 2 gr.
Gelsen. Semp. Tr., 5 min.
Gelsem. and Sulphur, aa 3 gr.
Hydrarg. cum Creta, 1/4, and 1 gr.
Hydrarg. cum Creta, 1 gr.; with Dover Powder, 1 gr.
Hydrarg. lod. Rub., 1/16 gr.
Hydrarg. lod. Vir. (Proto-Iodide of Mercury), 1/8 gr.
Hydrarg. Perchlor., 1/100 gr.
Hydrarg. Subchlor., 1/10 gr. (see also Calomel).
* Hydrastis Comp. (Hydrastis Mur., 1/2 gr.; Ergotin, 1/4 gr.; Can-nabin Tannate, 1/2 gr.).
Hydronaphthol, 3 gr.
Hyoscyam. Tr., 10 min.
Iguinol, 5 gr.
* Ichthyol, 24 gr. (keratin or sugar-coated).
Iodopyrin, 5 gr.
Ipecac. and Opium, 1/2 and 5 gr. (Dover Powder).
Ipecac. Powder, 1/10 and 5 gr.
Ipecac. Pulv. cum Antim. Tart., aa 1/100 gr.
Iron and Arsenic Comp. (Quinine Bicarb., 1 gr.; Iron Hypophosph., 2 gr.; Arsenic, Strych. Sulph., aa 1/50 gr.).
* Iron and Quinine Cit., 3 gr.
* Laxative Vegetable (Res. Podoph., Ext. Hyoscy., Ext. Tarax., aa 1/4 gr.; Ext. Coloc. Pulv., 1 gr.; Ext. Jalapeo Pulv., Res. Lepand., aa 1/2 gr.; Ol. Menth. Pip.).
Lithia Carbonate, 2 gr.
* Lithia Co. (Dr. Lane's formula) (Lithia Benzoate, 3 gr.; Sulphur Precip., 2 gr.; Quin. Salicyl., 1/3 gr.).
Magnes. Carb. Comp. (antacid) (Pot. Bicarb., 2 gr.; Soda Bicarb., 2 gr.; Magnes. Carb. Lewis., 2 gr.; Soda Chlorid., 3 gr.).
Manganese Dioxide, 2 gr.
Morphine Sulph., 1/20 and 1/8 gr.
Nasal, Alkaline (Borax, 5 gr.; Soda Chlor., 5 gr.; efferescent).
Nasal, Antiseptic and Alkaline (Soda Bic., 5 gr.; Acid. Carbolic., 1/2 gr.; Borax, 5 gr.).
Naso-pharyngeal (or Maenachon Jones' formula) (Sodium Chlorid., Borax, Boric Acid, Benzoic Acid, Menthol, Thymol, Cocaine Mur., Ol. Gaultherie).

All those "Tabloids" distinguished by asterisks (*) may be had beautifully coated with perfectly soluble pure white sugar. The improved appearance of these "Tabloids" when sugar-coated, and the complete protection from objectionable taste have made them increasingly popular with both physician and patient. In cases where any difficulty has arisen in the prompt supply of this sugar-coated variety, we shall be glad if physicians will kindly write us in order that we may be able to communicate with pharmacists in districts not yet supplied.

Nitroglycerine, 1/1000 gr. (see also Trinitrine).
Nux Vomica Tinct., 1, 3, & 10 min.
Opium Tinct., 2, 5, and 10 min.
Opium, 3 and 1 gr.
Pancreatin (see Zymine "Tabloids").
Papain, 2 gr. (Dr. Finkler & Co.).
* Peppin (Fairchild).
Peppin, Saccharated (Wyeth), 5 gr.
* Peppin, 3 gr. (Peppin, Pancreatin, and Lactophosph. of Lime, p. 50).
* Peppin (new process) (Zymine, 1 gr.; Calcei Lacto-Phosphate, 1 gr., coated with Keratin; Peppin Pure, 1 gr., is then added, and the complete "Tabloid" coated with pure white sugar).
Phenacetin (Bayer), 5 gr.
Pilocarpin Mur., 1/20 gr.
Podophyllin Resin, 1/4 gr.
Potass Bicarb., 5 gr.
Potass Bromide, 5 and 10 gr.
Potass Chlorate, 5 gr.
Potass Chlorate with Borax.
Potass Iodide, 5 gr.
Potass Nit. (Sal Prunella), 5 gr.
Potass Permanganate, 1 and 2 gr.
Quinins Bisulphate, 1 gr.
* Quinine (Bisulph.), 1, 2, 3, and 5 gr.
Quinine Sulphate, same strengths, sizes, and prices as Quinine Bisulphate.
Reduced Iron, 2 gr.
Resorein, 3 gr.
* Rhubarb Comp. (Pil.), 3 gr. (Rhei Pulv., 12 pt.; Aloes Soc. Pulv., pt.; Saponis Pulv., 5/8 pt.; Myrrhine Pulv., 5/8 pt.; Ol. Menth. Pip.).
Rhubarb Comp. Pulv. (Gregory Powder), 5 gr.
Rhubarb and Gentian (Stomachic Comp.) (Infusion Gentian. Co., 2 fl. dr.; Infusion Rhei, 2 fl. dr.; Soda Bic., 5 gr.; Ol. Menth. Pip., 1/2 gr.).
Rhubarb and Soda, 5 gr. (Rhei, 3 pts.; Soda Bicarb., 2 pts.; Zingiber, 1 pt.).
Rhubarb, 3 gr.
Saccharin, 4 gr.
Salicin, 5 gr.
Salol, 5 gr.
Santonin, 1/2 gr.
Sodium Bicarbonate, 5 gr.
Sodium Bithio-sulphate, 5 gr.
Soda-Mint or Neutralising "Tabloids" (Soda Bicarb., 4 gr.; Ammon. Carb., 1/8 gr.; Ol. Menth. Pip., 1/8 gr.).
Sodium Salicylate, 3 and 5 gr.
Strophanthus (2 minims of Tinct. in each).
Sulphonal, 5 gr.
Sulphur Comp. (Sir A. Garrod's formula) (Sulph. Precip., 5 gr.; Potass Bitar., 1 gr.).
Tannin, 24 gr.
Tar, 1 gr.
Test "Tabloids" (for preparing Fehling's Solution).
Thirst.
Thyroid Gland, 5 gr.
Tinct. "Tabloids." In oval bottles and bottles of 100.
* Tonic Comp. (Iron Pyrophos., 2 gr.; Quinine, 1 gr.; Strych., 1/100 gr.).
Trinitrine (Nitroglycerine), 1/100 and 1/50 gr.
Trinitrine and Amyl Nitrite.
Trinitrine Comp. (Trinitrine, 1/100 gr.; Nitrite of Amyl, 1/2 gr.; Capsicum, 1/50 gr.; Menthol, 1/50 gr.).
Urethane, 5 gr.
Voice (Painful, Borax, and Cocaine).
Warburg Tincture, 30 min. in each.
Zinc Sulphate, 1 and 10 gr.
Zinc Sulpho-carbolate, 2 gr.
Zingib. Fort. Tinct., 5 min.
Zymine (Fairchild).
Zymine Comp. (Fairchild) (Zymine, 2 gr.; Bismuth Subnit., 3 gr.; Pulv. Ipecac., 1/10 gr.).

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EXT. CACT. GRANDIFLOR. LIQ.

A cardiac tonic indicated in functional disorders of the heart, especially in palpitation arising from reflex irritation in dyspepsia and in the milder forms of angina pectoris.

EXT. CASCAR. SAG. LIQ. (Soluble).

Free from the nauseating taste of the corresponding Liquor of the Pharmacopœia. It remains bright when diluted with water in any proportion.

EXT. COCÆ LIQ. (Soluble).

Identical in strength with the official liquid extract, from which it differs by mixing bright with water, wine, or syrup.

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PEPSIN GLYCE. ACID.

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CONTENTS: VOL. XLIII. No. 14.

	PAGE		PAGE
Australasian News	514	Irish News	458
Bankruptcies and Failures	500	Legal Reports	501
Business Changes	507	Marriages	507
Correspondence	519	New Companies	507
Deaths	507	Next Week	522
Deaths of Arrangement	503	Personalities	507
Editorial Comments:—		Scotch News	498
Legislation in 1893	508	The Old Order Changeth. By	
Failures and their Causes	509	Joseph Ince	511
Notes	510	Trade Notes	503
English News	496	Trade Report	515
Foreign and Colonial News	499	World's Columbian Exposition:	
French Pharmaceutical News	499	German Section	504
Galenical Preparations (U.S.P.)	522	Awards	506
Gazette	506		

THE CHEMISTS' AND DRUGGISTS' DIARY, 1894.

THIS work is now in preparation, and in the course of a few weeks sheets of the advertisements and literary matter will be going to press. This early publication is necessary on account of the extensive

COLONIAL AND FOREIGN CIRCULATION

of THE CHEMIST AND DRUGGIST, and our endeavour to place all subscribers abroad as near as possible on an equal footing with those at home in the matter of time. Copies of THE DIARY for colonial and foreign parts will first be dispatched, so that subscribers may begin the year 1894 with THE DIARY on their desks. We ask advertisers to note this particularly, and to be prompt in their instructions to the publisher. We may further hint that too much care cannot be bestowed on compiling DIARY advertisements; they serve all the year round, and cannot be illustrated too freely or well where illustrations are appropriate. Prices and terms should, if possible, be made a feature. As in former years,

A COMPLETE BUYER'S GUIDE

will be inserted in THE DIARY. This consists of a classified digest of the whole of the business announcements appearing in THE DIARY. Upon the preparation of this we bestow great care, the object being to make THE DIARY as complete a trade directory as there exists, and to facilitate business between sellers and buyers. The literary features will be of the progressive and practical nature which has characterised this publication since its inception. The publisher will give full information to business houses regarding tariff, &c. THE DIARY, we may add, is presented free to all home, colonial, and foreign subscribers to THE CHEMIST AND DRUGGIST. It is a handsomely-produced volume, and is without question the best and foremost advertising medium for the drug-trade in existence.

Summary.

WE give in this issue a few more new formulae from the United States Pharmacopoeia.

UNDER "News" will be found brief reports of drug-contracts secured by provincial chemists.

AN ex-Bell scholar communicates his views on the value of the scholarships and how to prepare for the examination.

ROBERT SHORROCKS, a Manchester chemist, has been charged with setting fire to his shop. He is now under medical restraint.

WE report in the trade section an important decline in ergot of rye, and some signs of improvement in quinine.

THE report of the Inspector-General in Bankruptcy for 1892 contains an analysis of the causes of bankruptcy upon which we comment editorially.

AT the Mincing Lane sales this week some drugs were offered which have been in store for thirty years. Particulars are given in our Trade Report.

MESSRS. BURROUGHS, WELLCOME & Co. call attention, in our Correspondence column, to the fact that they have the exclusive right to the use of the word "Hazeline."

MR. JOSEPH INCE contributes some interesting reminiscences of the original Godfrey & Cook's shop in Southampton Street, Covent Garden, which is now undergoing demolition.

FURTHER evidence has been given in the Levermore precipitated-chalk prosecution, and the defendants (who reserve their defence) have been committed for trial at the Old Bailey.

IN "The Legislation of 1893" we give particulars of some of the more important enactments interesting to chemists, which have been made during the session recently adjourned.

A LETTER which we recently published in regard to syphon-swindling at the West-end has been the means of detecting the culprit, and, we hope, of stopping her practices.

AN Associate of the Irish Pharmaceutical Society has given notice of a motion to be submitted to the annual meeting on Tuesday recommending the Council to behave themselves like educated gentlemen.

THE Stipendiary Magistrate at Hanley is of opinion that Somerset House Analytical Reports under the Sale of Food and Drugs Act only confuse magistrates, and he has refused to send a reserved sample to the laboratory.

IN this week's report of the Chicago Exhibition we deal with the German alkali-trade, showing how it has progressed during the past twenty years. The organisation of the German chemical exhibit generally is also dealt with.

THE judges in the Agricultural and Liberal Arts Sections of the World's Fair have made further awards. We give the names of British exhibitors of fats, oils, soaps, &c., meteorological instruments, and photographic apparatus and lenses, who have been so honoured.

A MANCHESTER coroner's jury has recommended the Home Secretary to put some restriction upon the sale of soothing medicines for children. This resolution was come to at an inquiry in regard to the death of an infant from an overdose of infants' preservative.

THE Pharmaceutical Society have been successful at Edinburgh in prosecuting five unqualified persons for the sale of poisons. Two were assistants in stores, and three were drysalters who sold oxalic acid. A witness in one of the cases declared that he was a registered chemist and druggist, and was much astonished when he found that his name was not on the Register.

English News.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

The Food Exhibition.

The Seventh Annual Cookery and Food Exhibition is to be held at the Portman Rooms, Baker Street, from October 24 to October 28 inclusive. The exhibition is promoted by the Universal Cookery and Food Association, 329 Vauxhall Bridge Road, S.W.

The Sheffield Pharmaceutical and Chemical Society.

The annual meeting of the Sheffield Pharmaceutical and Chemical Society was held on September 22, when the following officers were appointed:—Mr. G. T. W. Newsholme, President and Treasurer; Mr. S. T. Roden and Mr. H. E. Ibbitt, Vice-Presidents; Mr. J. F. Eardley, Hon. Sec.; members of the Council, the officers already named and Messrs. J. H. Bradwell, G. Ellinor, A. R. Fox, C. O. Morrison, Owen, Job Preston, W. Ward, and R. Watts; auditors, Messrs. Watson and G. Squire.

A Magistrate on Somerset-house Analyses.

Mr. Harold Wright, the Stipendiary Magistrate at Hanley, in a milk-adulteration case last week, was more outspoken than polite in regard to the analyses made at Somerset House. A solicitor applied for an order of the Court that the third sample should be sent to Somerset House for independent analysis. The Stipendiary said the third sample was simply for the guidance of the Court in the event of the defendant challenging the analysis of the County Analyst. So far as he was concerned, as a matter of discretion, he should not send samples to Somerset House. His experience was that their reports either misled the Court, or else it was impossible to tell what they did mean. He therefore declined to make the order.

A Chemist's Strange Freak.

Considerable excitement prevailed in the Hyde Road district, West Gorton, Manchester, last Friday evening, when smoke was seen to issue from the shop of a chemist, Robert Shorrocks, Hyde Road. It seemed to be coming from the cellar of the premises. The premises were examined, and it was seen that some straw in the cellar was in flames, which had communicated with some resin in the shop. The door was fastened at the time, and Shorrocks would not open it. When it was burst open he threw several chairs at the people who had broken the door. The fire was extinguished, and subsequently Shorrocks was arrested and brought before the Magistrates at Manchester, on Saturday, on a charge of setting fire to the shop. He was also charged with being apparently of unsound mind, and was ordered to be taken to the workhouse. His brother asked that he should be discharged, promising to look after him. The Chairman said he could not accede to this course, as the man appeared to have set fire to the shop, and ought not to be at large. Shorrocks was eventually sent to the workhouse, where he will be placed under medical restraint.

Stealing a Chemist's Tricycle.

On Monday Mr. Andrews, chemist and druggist, Carlisle Road, Eastbourne, left a tricycle in a recess against the front door, when someone purloined it and rode away with it. The machine is worth 25*l.*, is of the "Eureka" type, numbered 9,993, and manufactured by Baylis & Thomas. The matter is in the hands of the police.

A Day at Scarborough.

A party of thirty members of the staff of the Harrogate branch of the Chemists' Aerated-waters Association made a trip to Scarborough on September 16, and feasted at the Bull Hotel. A hearty vote of thanks was passed to the directors for the treat.

Is Milk Medicine?

At the Whitehaven Revision Court last week objection was raised against a voter on the ground that he was in receipt of parish relief. It was stated that the relief given consisted of milk for the man's child, and as it was ordered by the doctor it was contended that it came under the definition of medicine. The Revising Barrister: Supposing the doctor had ordered arrowroot? Mr. Alter: Then I should never have raised the question. The claim was eventually allowed.

Stealing from a Chemist's Counter.

At the Portsmouth Police Court, on September 23, Charles Hughes, 61, a vagrant, was charged with stealing a box of borax and camphor, value 6*d.*, the property of Mr. John Arnold, chemist, of King's Road, Southsea. On the previous afternoon the prisoner entered the shop and asked the assistant for a copper, which was refused. Later in the day the prisoner was apprehended for being drunk. He then attempted to throw away the stolen packet. The police made inquiries and found that it had been stolen from Mr. Arnold's shop. Prisoner pleaded not guilty, and stated that he had picked the borax up. The Bench sentenced him to fourteen days' imprisonment with hard labour.

Poisons by the Pennyworth.

A bricklayer named Coulson, 68 years of age, died at Jarrow last week, apparently from the effects of opium-poisoning. His wife, in her evidence, said when he returned from work he complained of being ill, having pain and diarrhoea. Under the impression that it would do him good, she purchased some tincture of rhubarb with a few drops of laudanum from Mr. Clark's establishment in the Market Square, and gave it to him in two doses, one half an hour after the other. From other evidence, however, it appeared that she had bought three-pennyworth of laudanum and two-pennyworth of tincture of rhubarb. This latter version commended itself to the Coroner and his jury, though neither Mr. Clark nor his assistant gave evidence. The Coroner said that deceased seemed to have been peculiarly sensitive to the effects of opium. No blame was attached to anyone; it was purely a case of misadventure, and was another instance of the great risk of these mixtures being used by any but skilled hands. The jury returned a verdict that death was due to opium-poisoning through taking too large a dose of laudanum.

Carbolic-acid Poisoning.

A child named Brammer, aged 2 years, son of a platerlayer at Ponton, near Grantham, killed himself by drinking some carbolic acid which was kept in a cupboard level with the floor. The mother said at the inquest she did not know carbolic acid was a dangerous poison.

An Overdose of Infants' Preservative.

The Deputy-Coroner held an adjourned inquiry at Manchester, on Monday, respecting the death of the infant son of a plumber, named Charles Joseph Baines. The child died from the effects of an overdose of "infants' preservative," which had been purchased at a grocer's shop, and administered by the mother. At the inquest the grocer stated that when he sold $\frac{1}{2}$ oz. of the preservative to Mrs. Baines he put no label on the bottle, but there was a large label on the bottle supplied to him by the wholesale chemist. Witness had no knowledge of the contents of the preservative, and he was not a chemist. The doctor who was called in was of opinion that death was due to opium-poisoning. The jury returned a verdict of accidental death, and censured the mother of the deceased for her carelessness in giving the child the overdose. They also recommended that the attention of the Home Secretary should be called to the danger attending the sale of infants' preservative containing narcotics, so that, if possible, steps may be taken to prevent the sale in future.

Drug-contracts.

Mr. William Martin, chemist, High Street, Southampton, has secured the contract to supply drugs to the Southampton Union for the next six months.

Mr. A. B. Acworth, of Strood, has secured the contract for the supply of sanitas disinfecting fluid and soap, crushed linseed, &c., to the Strood Union for the ensuing six months.

The Farnham Board of Guardians have accepted the tender of Mr. A. Dunston, of Farnham, for the supply of drugs to the workhouse.

The Gravesend and Milton (Kent) Board of Guardians have accepted the tender of Mr. Burton for the supply of crushed linseed at 14s. 6d. per cwt., and of Mr. Bond for raw linseed oil at 1s. 10d. per gallon, and boiled linseed oil at the same price.

At the last meeting of the Warrington Board of Guardians Mr. Clarke moved that the contract for the supply of medicines be transferred from Dr. Watkins, the Medical Officer of Health, to Mr. Brown, chemist and druggist, Earlestown. He did so because he thought the doctor's charges were too high. He charged 1s. per bottle, while in Warrington the medicine was supplied by chemists at 9d. per bottle. The motion was negatived, and Mr. Clarke said he should bring the matter up at some future time.

The Peterborough Board of Guardians, on Saturday, accepted the tender of Mr. Calcutt, for the supply of drugs to the workhouse, and infirmary for the ensuing six months.

Chemists and Excise-licences.

A wine-licence has been granted to Mr. W. Martin, chemist, 112 High Street, Southampton.

A wine-licence has been granted to Mr. Timothy White, for his new branch business at Fratton.

A licence for the sale of medicated wines was granted to Mr. Joseph Senior, chemist, Compton Street, Eastbourne.

A licence for the sale of medicated wines was granted to Mr. Frederick Mallinson, chemist, Market Street, Heckmondwike.

An off spirit-licence has been granted to Mr. J. J. Johns, 184 High Street, Southampton. Mr. Johns also applied for leave to transfer an off-licence to sell beer from 32A Above Bar to his chemist's shop at 184 High Street. He explained it was simply a retail bottle-trade. The application was refused.

At the Matlock licensing sessions, Mr. Charles Felthouse, drug-store keeper, Matlock Bank, applied for his wine-licence to be extended to one for spirits. The licensed victualler of the district opposed on the ground that the notices had not been advertised in a paper with a local circulation. The Bench considered the objection fatal, and refused to grant the licence or adjourn the application.

Sequah and the Electric-machine.

One of the travelling "Sequahs," named Blakeley, after a professional visit to Bedford, sold to a certain George Allen, of Ravensden, a medical battery for 10l. 10s. Allen had only paid 3l. for it, and Blakeley, having to leave, assigned the debt to a Mr. Grant, who now sued for it. For the defence, it was contended that defendant was of weak mind and mentally incompetent to make a contract. He was a poor farm-labourer and had twice attempted suicide. It was also contended that the medical battery was not at all necessary to a man in his station of life. After hearing the evidence, the Judge instructed the jury that there was no evidence that the defendant was in such a state of mind as to be unable to make the contract; but the jury found that defendant was not responsible for his actions. The Judge, however, said that, notwithstanding the finding of the jury, the verdict must be for the plaintiff. A new trial was applied for and granted. It was taken at once, and, in the end, the Judge directed the sale of the machine on the best terms, and that defendant be credited with the proceeds. He would consider further the question of payment.

Stealing Surgical Instruments.

John Henry Jones was brought up on remand at the Shrewsbury Police Court, charged with stealing a case of surgical instruments. The Mayor said the Bench did not want to send the prisoner—a mere child—to prison, but he would have to be taken out of the hands of his stepfather, whom

they considered a worthless, lazy fellow. Eventually the lad was again remanded until the necessary steps had been completed for transferring him to an industrial school.

A Soap-contract.

At the meeting of the Guardians of the City of London Union, on Tuesday, tenders were received for the supply to the City of London Workhouse, at Homerton, and the infirmary, Bow, of soap for the ensuing six months. The lowest tenderers were Messrs. R. Wheen & Sons, of Creek Road, Deptford—184l. 17s. 6d. The following were the agreed prices:—Hard-soap: genuine pale pure tallow soap, of the best quality, to be weighed ten days after delivery, each bar of soap supplied to be stamped by the makers with their name, also trade-mark, if any, at per cwt. (150 cwt.), 14s. Soft-soap: each firkin supplied to be in quality equal to E. Cook & Co.'s O.B.B., also to have the gross weight and tare marked on each firkin, at per firkin of 64 lbs. (110 firkins), 13s. 3d. McDougall's 2-per-cent. carbolic acid soap, in 3-lb. bars, at per cwt. (30 cwt.), 1l. 3s.

Alleged Forgeries at Heckmondwike.

An inspector of the West Riding police has proceeded to Cape Town to bring back for trial in this country John William Houldsworth, whose flight at the beginning of May caused considerable sensation in the district. He was managing partner in the firm of D. Houldsworth & Sons, manufacturing chemists, of Heckmondwike, and was one of the most prominent men in the town in religious and political work, being particularly active as a temperance reformer. The firm, which had been looked upon as a flourishing one, was forced into bankruptcy. It was then discovered, it was alleged, that Houldsworth had been carrying on an extensive system of fraud by means of forged bills, which he met when they became due by forging and discounting others. After he got to Africa, where he seems to have assumed the name of Fordham, he communicated with friends in England, who sent to him certain articles, the tracing of which led to his apprehension.

Strychnine-poisoning.

An adjourned inquest was held at West Kensington, on Wednesday, regarding the death of Florence Mundy, a servant in the employ of Dr. Withers. According to the evidence of Dr. Alderson, death was due to convulsions induced by epilepsy or inflammation of the tonsils; but there being suspicious circumstances, the assistance of Dr. A. P. Luff, official analyst to the Home Office, was sought. Dr. Luff reported on Wednesday that he found strychnine in the stomach-coating, $\frac{1}{4}$ grain in the liver, and some in the kidneys. He was of opinion that the poison had been taken in solution. Dr. Withers could not account for the girl getting strychnine, which was kept in a chiffonier. The key was generally in the door, however. An open verdict was returned.

Had Been Amongst Chemistry.

An inquest was opened at Leicester, on Monday, on the body of a child named Gertrude Thacker, 3 years of age, daughter of a labourer. The deceased had been suffering from a mild attack of scarlet fever, and was attended by a doctor. On Friday she developed fresh symptoms, and was unable to swallow. Her mother and grandmother consulted, and decided to apply to a chemist, living near, for some medicine. The grandmother went to the shop, and found the wife of the chemist in charge. She gave the woman a mixture for the child in a bottle which had previously contained other physic. A dose of the medicine was given the deceased, who could not swallow it. She was put to bed, and died in the course of the afternoon. The woman who made up the mixture volunteered to give evidence. She said her husband was not a registered chemist, as the business belonged to their son. Witness had been "amongst chemistry" for forty years, and probably knew more about it than her husband. She remembered the child's grandmother coming for medicine, and admitted that she made up a mixture which consisted of some syrup of squills, ipecacuanha-wine, and a few drops of laudanum, with a quantity of water equal to all the other component parts. Mrs. Hopewell, the grandmother, brought a bottle which had contained oil of some kind, and in that she took away the mixture, for which she charged

1*d.* The medical man in the case said that he had made a *post-mortem* examination of the body, and had submitted the contents of the stomach to the borough analyst. Until his report was received he could not certify the cause of death. The inquiry was adjourned.

Opium—"The King of Dusky Chiefs."

Two peculiar cases of suicide in which opium had been used have occurred this week. On Monday evening last, Dr. G. Danford Thomas held an inquest at Islington on the body of John Prescott Richardson, 39, a commission-agent, who had died on Thursday evening from the effects of self-inflicted injuries. George Myers, wholesale druggist of the Boulevard, Hull, stated that he was related to the deceased by marriage. While deceased was in the Army Hospital Corps he served in the Soudan, and obtained bronze and silver medals. Since he had left the Army Service he had always been in an unsettled, restless state. Police constable Walter deposed that he found the deceased lying in a pool of blood on the floor, bleeding from both arms below the elbow, from wounds which had apparently been inflicted with a razor. Witness discovered seven letters written in pencil. In one of these deceased wrote: "On Tuesday night I took two ounces of opium with the hope of its destroying my life, but it had not the desired effect. To-night I am taking another ounce, and if this should not prove fatal I shall attempt to sever the brachial artery." The jury returned a verdict of suicide while of unsound mind.

On Tuesday, John Girdler, aged 62, a bootmaker, formerly a postman, of 77 Frampton Park Road, Hackney, was found dead in bed. At the inquest, on Wednesday, it transpired that deceased left a letter addressed "To the Coroner," to the following effect:—"As I desire to give as little trouble as possible, I have to state that the agent I have engaged to conduct me to the great majority is a decoction of the king of dusky chiefs—opium, called laudanum." This assisted the jury in arriving at their verdict.

Plymouth Materia-medica Class.

Dr. J. Wilson has been appointed teacher of materia medica at the Plymouth Technical Schools, but more students than have yet offered themselves will be required if the class is to be a success.

Cholera-dispensing at Plymouth.

Dr. Williams, the Plymouth Medical Officer of Health, has invited the local chemists to quote for certain dispensing if required, for the sanitary authority, should there be an outbreak of cholera. In the event of terms being satisfactory, a list of duly-appointed medical men will be supplied, whose prescriptions are to be dispensed. The following is the estimate of a well-known firm:— zvj . and zvii . mixtures, with bottle, 1*d.* per oz.; pills and powders (unless exceptional), 6*d.* per dozen; stock pills, 3*d.* per dozen. If at night (*i.e.*, out of usual business-hours), 25 per cent. extra.

Poisoned by Opium Lozenges.

On Tuesday an inquest was held at the Barrack Hospital, Winchester, touching the death of Colour-Sergeant Gallagher, of the Hampshire Regiment. The deceased, who was admitted to the hospital for rheumatism, had been in the habit of taking cough-lozenges prepared by Messrs. Hunt & Co., chemists, of Winchester. The deceased had been suffering from a cough, and the wife, unknown to the authorities, brought him $\frac{1}{2}$ oz. of these lozenges, which, as they contained a small quantity of morphine, were labelled "Poison." Minute directions were also issued with them directing only one to be taken about three times a day. It also transpired that deceased had partaken of alcoholic liquors, which had also been smuggled in, shortly before his death. The deceased's wife, in her evidence, made some grave allegations against the hospital authorities of neglect. The Coroner said the case required to be fully gone into, and adjourned the inquiry until Thursday afternoon.

Irish News.

Trade Movements in Belfast.

Two more medical-halls are about to be opened on Ormeau Road, Belfast. Mr. Wilson, pharmaceutical chemist, Longford, is having a large establishment fitted at Cooke Street, and Mr. Guiler, late manager for Mr. Wells. Bagot Street, Dublin, is also fitting premises on this road. Mr. William Agnew, pharmaceutical chemist, who has been for a number of years with Mr. J. W. Nicholl, High Street, Belfast, is opening a medical-hall on Clifton Street, near Carlisle Circus.

First Aid.

On Sunday evening a little boy, about 10 years old, fell on a spiked railing near Kilmainham, sustaining severe laceration of his arm. Mr. R. D. Atkinson, L.P.S.I., was passing at the time, and promptly rendered valuable assistance by bandaging the arm, thereby stopping the hemorrhage, and at the same time giving instructions to have the boy removed to the nearest hospital for further treatment.

Personal.

Mr. P. N. White, pharmaceutical chemist, Sligo, has been appointed a justice of the peace for the borough of Sligo by the Lord Chancellor of Ireland.

Mr. MIDDLETON, the associate druggist who has given notice of the motion for the annual meeting of the Pharmaceutical Society, referred to elsewhere, is in the employment of Mr. Hayes, the President of the Society.

Alleged Embezzlement.

At the Dublin Police Courts, on Saturday, September 23, William Gashe, a clerk in the employment of Mr. Samuel Boyd, druggist, Dublin, was remanded on the charge of having embezzled the sum of 16*s.* from his employer.

Pharmaceutical Council Election.

The retiring members of the Pharmaceutical Council are the following:—Messrs. Edward M. Hodgson, J.P., William James Baxter, George D. Beggs, Joseph Stewart, Meredith Rountree Whitla, Robert Simpson, and Richard Sunner. Messrs. Stewart and Sunner do not seek re-election. The attendance-list for the past two years, which is published with the notice of the election, shows that Mr. Beggs attended 11 Council meetings in 1891-2 out of 13, and 11 in 1892-3 out of 12. In the two years he attended besides 58 committee meetings. The only other members on the list whose attendance is respectable are Messrs. Hodgson with 11 and 6 Council meetings and 1 committee meeting; and Mr. Simpson with 6 and 6 Council meetings and 3 committee meetings. Messrs. Stewart and Sunner attended one Council meeting each in the two years and no committee meeting.

Union Dispensary Tinctures.

The committee of management of the Clonmel Dispensary district advertise for a pharmaceutical chemist to compound medicine and prepare tinctures and other drugs. This is a new feature. Hitherto it has been the universal practice in all the Irish Poor Law union dispensaries to obtain all preparations from the drug-contractor.

Scotch News.

The October Examinations

commenced in Edinburgh on Monday with the Major, simultaneously with London. The Minor followed. It is expected that work in connection with the new examination hall will commence after the examinations are over, and not too soon; for the present congestion at 36 York Place throws much needless labour upon the assistant-secretary, and causes inconvenience to examiners and candidates.

Bon Voyage.

Mr. William Mair, late dispenser at the Dundee Infirmary, was entertained by several pharmaceutical friends in Mather's

Hotel on Thursday evening, September 22, on the occasion of his leaving for Calcutta. Mr. Mair carries with him a pretty watch-chain appendage to remind him of the work he has done in connection with the Chemists' Assistants' Association.

Business Changes.

Mr. James Anderson, of Commercial Street, Dundee, has had his shop there taken "over his head" by a neighbouring draper, and he has, in consequence, bought the corner shop on the south-west side of the street, with two flats above. He will remove into this next May.

Mr. R. Tait Linton, pharmaceutical chemist, Edinburgh, has recommenced business in Clerk Street.

Messrs. Baildon & Son have been compelled to move out of their West-end branch in Princes Street, Edinburgh, but they have secured even better quarters a few doors from the old shop, and in the same street. The new pharmacy, which is in charge of Mr. Kennedy Stewart, looks exceedingly well.

Carbolic-acid Poisoning.

The dead body of a man was found by a mason in a shed at a building in course of erection in Gairbraid Street, Glasgow, on Monday. The deceased was identified as Joseph Stephens, a plater, who had been employed in Maryhill Gasworks. A small bottle containing carbolic acid was found on the body, and the doctor was of opinion that death was due to poisoning caused by that acid.

Personal.

Mr. Geo. G. Davidson, an apprentice with Mr. Peter Boa, Edinburgh, has been awarded an evening class bursary, value 2*l.*, in the Heriot Watt College, Edinburgh, as a result of his last session's work in the chemistry class. He is a son of Mr. Davidson, pharmaceutical chemist, Dundee.

French Pharmaceutical News.

(From our Paris Correspondent.)

THE ICE-TRADE OF PARIS.—In June last the Council of Hygiene, as the result of a report proposed by M. Riche, submitted to the Prefect of Police a series of measures for controlling the sale of ice. This has now been confirmed by a circular from the Consulting Committee of Public Hygiene of France, which says that the natural ice sold in Paris is taken from lakes and ponds containing exceedingly filthy water. Bacteriological analysis proves the presence therein of an incalculable number of bacteria of the most virulent nature. Without asking that the sale of natural ice be entirely suppressed, the Committee of Public Hygiene suggest that special precautions should be taken to control the sale of ice used for alimentary purposes, and make certain suggestions in that connection. These, however, for the most part merely confirm those already proposed by the Council of Hygiene, and reported in *THE CHEMIST AND DRUGGIST* of June 24.

M. MOISSAN'S DIAMOND-RESEARCHES.—At the Academy of Sciences, on Monday last, M. Moissan announced that, in continuing his researches on the synthesis of the diamond by means of the electric furnace, he has just obtained two compounds well worthy of attention. These bodies are silicide of carbon and boride of carbon. They are of excessive hardness, and cut rubies, steel, or diamonds. M. Berthelot asked M. Moissan if in the researches made previous to his own on the subject of artificial diamonds, chemists had not sometimes mistaken for diamonds very dense compounds similar to those to which reference had just been made. M. Moissan replied that he believed errors of the kind might easily occur when analysts are not exactly acquainted with all the characteristics of diamonds. By only bearing in mind their density and property of cutting all other gems, errors may frequently have been made. But, being at present aware of the characteristic of diamonds to burn in oxygen, and to produce four times their weight of carbonic acid, it is now difficult to confound them with any other body.

A FALSE REPORT.—During the past few days a good deal of attention has been attracted here by a pretended circular, supposed to have been addressed to the pharmacists of Paris by the Superior School of Pharmacy, the object being to remind them of the regulations by which they are controlled. Pharmacists, said the circular, must tender all possible care and attention to victims of accidents and others who may be brought to them, and under no pretext must such aid be refused. These instructions caused considerable surprise in the pharmaceutical world, though few would believe them genuine. The School of Pharmacy soon settled the matter by declaring that it had no knowledge of the circular, and that the directors of the School had never contemplated such a step. But a certain amount of emotion had been aroused, and it was not easily calmed. The Syndical Chamber of Pharmacists of the Seine have, by way of protest, addressed a letter to the Paris press to the effect that the Syndical Chamber thinks it necessary to mention that no circular of the nature in question has been issued either by the Prefecture of Police or the School of Pharmacy, neither of whom have received complaints on the subject in question. Beyond this no regulation exists, or is likely to exist, that obliges the pharmacien to attend to a patient brought to his shop. Legally, they can take or refuse whom they like. But there is scarcely one in Paris who would not make it a point of honour to receive and tender all assistance in his power to anyone brought to him. As a matter of fact, one of the most stereotyped phrases in Paris newspapers in accounts of accidents is: "the victim was taken to the nearest pharmacy, where he received every possible care." A pharmacist established at the commencement of the Faubourg Montmartre, near what is known as the "Carrefour des Ecrasés," in the course of a conversation on the subject, said: "Perhaps my shop is the one in Paris to which the greater number of people who have been run over are brought. I have never refused to attend to anyone, though such cases are frequently sources of annoyance and loss of custom. The Prefecture of Police will always reimburse as for any expense incurred by the victim of an accident if he is unable to pay." In this connection, it is not without interest to note that the youth who met with his death during the students' riots last July 1 was taken to a pharmacy in the Boulevard St. Michel. The Prefecture offered to pay for the drugs used, and these amounted at 8*fr.* being the price of a Pravaz syringe and injections of morphia and ether. The bill has, however, not yet been settled. For ordinary cases the official tariff is fixed at 1*fr.* 50*c.* for day-service and double that sum for night-attendance.

Foreign and Colonial News.

A SEDITIOUS CHEMIST'S ASSISTANT.—Among the agitators arrested in connection with the recent so-called Home Rule disturbances in Bohemia is a chemist's assistant, from Ostrau, whose loyalty to the Young Czech party took the singular form of tearing the metal Austrian Imperial eagles off the letter-boxes of his town. A quantity of the bird-emblems was found at his lodgings.

CUTTING DOWN TURPENTINE-TAPPERS' WAGES.—The turpentine-wood proprietors throughout the Southern States of America are beginning to feel the effect of the low prices which have ruled so long for their produce, and are taking steps to recoup themselves by cutting down wages all round. It is said that turpentine-hands are paid more for their work than any other class of unskilled labourers, and that they can well afford to work for less.

THE EPILEPTIC AND THE DRUGGIST.—A man recently entered a Brooklyn drug-store to get some medicine for epileptic attacks. The druggist was a little slow in filling his order, and the patient attacked him with a sickle which he happened to have in his hand. In the police court, when asked for an excuse, the prisoner pleaded that he was subjected to fits, that while in that condition did not know what he did, and that he had a fit in the store. The Judge, at first inclined to be sceptical, was startled by a practical demonstration of the truth of the plea, the prisoner being taken with another fit for the Court's edification. The case was adjourned.

TOBACCO-SELLING DRUGGISTS.—The passage of the new Cigarette Law by the Ohio Legislature has created quite a stir among the druggists in that State. The law, which came in force on August 1, imposes a tax of \$100 upon retailers, and of \$300 upon jobbers of cigarettes. Most of the dealers have united in a suit to have the tax declared unconstitutional, and the matter will go before the courts in September. Meanwhile, quite a number of druggists who are included in the list of tobacco-sellers have taken out the retailer's licence under protest. It has become a common matter to see hanging in drug-stores the sign: "We sell cigarettes of all kinds."

DISINFECTANTS FOR BULGARIA.—The Bulgarian Government have been seized with a cholera-panic, under the influence of which they ordered stringent quarantine regulations to be put into force upon the Turkish frontier. They have also taken the more effective precautionary measure of purchasing a quantity of disinfectants by public tender, the total quantities secured in this manner being 15 tons of crude carbolic acid, 2 tons 8 cwt. of refined ditto, 3 tons 12 cwt. of creolin, $\frac{1}{2}$ cwt. of corrosive sublimate, 24 cwt. of soft soap, and 3 tons of sulphate of copper. The whole of this was tendered for the amount of 36,640*l.* by Mr. N. S. Stranski and Messrs. Noew & Stankovitch, wholesale druggists.

THE ALKALI-EXPORT BUSINESS.—During the month of August Germany imported 15,908 cwt. of alkali from the United Kingdom, as compared with 9,934 cwt. in August, 1892. In consequence of the increased duty on German articles, the import into Russia of coal-tar products from England has also been largely augmented. During the first eight months of this year, for instance, Russia imported 212,239 cwt. of alkali from the United Kingdom, as compared with 135,828 cwt. in the corresponding period of last year. The discrepancy would probably have been much greater still but for the fact that the new Russian tariff only came into operation in the second half of the year. During the first eight months of this year the United States imported 2,585,637 cwt. of alkali from the United Kingdom, as compared with 2,218,864 cwt. in the corresponding period of 1892.

A KNOCK-OUT AT A DRUGGIST'S.—The following racy account of the auctioning of a Detroit druggist's stock is from the pages of the *Pharmaceutical Era*:—"There was a queer sight in an auction-room on Eliot Street the other day. Before the auctioneer's counter there was gathered a group of prospective buyers, and ranged along the shelves behind the counter were the remains of a drug-store. The auctioneer's task was to make the people before him think they needed the goods on the shelves. A shade of discouragement flitted across his face as he realised the difficulty of his task, but he shook himself together and began courageously with a collection of brown-paper parcels, supposed to contain dry herbs. There was no doubt about the dried part of it, but whether they were really good herbs or not was hard to say. Bids on these goods seemed to spring up in the auctioneer's imagination. He was continually thinking he heard something, and asking, 'Ten, did I hear it? Who was that?' and getting no reply. Ten cents was the average price which he called on the herbs, and they were knocked down in rapid succession to a mysterious and apparently mythical person called Scott. When the more desirable articles of the stock came under the hammer, bids became audible. One man thought he had transacted considerable business when he bought eight boxes of toothpicks, badly in need of repairs, for the small sum of 15*c.* Another was happy in the purchase of fourteen fly-catchers of improved pattern for a dime. Corn-cures, dyspepsia-pills, hair-oil, and babies' food found ready buyers, but the prices paid were uniformly small. An old lady bought a package of mummified hops. Then a lot of poisons were set out. 'I cannot sell you these poisons under the new law, gentlemen,' said the auctioneer, rather dubiously; then he added with a twinkle in his eye, 'but I'll sell you the bottles and give you the contents.' He got 40*c.* for the lot. An old tobacco-cutter sold for 70*c.*, and the clock, 'in good running order,' though with one hand gone and the other apparently paralysed, brought an even half-dollar."

Bankruptcies and Failures.

Re JOSHUA EVANS JONES, Holton Road, Barry Dock, Chemist and Druggist.

THE first meeting of the creditors of this debtor was held on September 21, at the offices of the Official Receiver (Mr. T. H. Stephens), Cardiff. Debtor was represented by Mr. Hill, solicitor, and only three creditors were present.

The Official Receiver stated that the debtor had offered a composition of 7*s.* 6*d.* in the pound, and the only thing they had to consider was whether this should be accepted. He might say he had received letters from six or seven creditors authorising him to accept the composition.

Mr. Hill said two uncles of the debtor had offered to become sureties for the payment of the composition. They were both farmers. The composition was to be paid by bills at three, six, and nine months of equal amounts.

The creditors present seemed willing to accept the offer, but

The Official Receiver said he had not quite sufficient proxies to carry the composition, and therefore the meeting would have to be adjourned. Seventeen creditors had proved, whose debts amounted to 321*l.*, while there were ten creditors present by proxy and otherwise, whose debts amounted to 219*l.* Thus they were a few pounds short.

The meeting then adjourned for a week.

Re ALFRED COURT, Kentish Town Road and elsewhere, Chemist.

UNDER the failure of this debtor, the usual summary has been issued to creditors from the London Bankruptcy Court. The accounts show unsecured creditors, 276*l.* 1*s.* 8*d.*; partly secured creditors, 110*l.*, holding security valued at 100*l.*; preferential creditors, 31*l.* 15*s.*; assets, 350*l.*; and a surplus of 32*l.* 3*s.* 4*d.* The assets comprise stock-in-trade, 150*l.* (estimated cost, 250*l.*); trade fixtures, fittings, &c., 150*l.*; household furniture, 50*l.*

Mr. G. Wreford, Official Receiver, reports that the receiving-order was made on August 15, upon the debtor's own petition. That the bankrupt states that he commenced business in 1883 with about 120*l.*, of which 100*l.* was borrowed, and in 1889 purchased additional businesses at South Kensington and Mildmay Park. He sold the former business in August, 1889, and the latter in December, 1891. He attributes his failure to general depression in trade, losses in connection with the Mildmay Park business, and pressure by creditors. The bankrupt further states that he kept cash and day books, and a customers' ledger for the business at Kentish Town Road, which books he has been required to produce. Similar books are stated to have been kept at Mildmay Park, and to have been taken over by the purchaser of the business. The creditors treated as partly secured are stated to hold a charge upon the lease of the bankrupt's premises at Kentish Town Road. The stock, utensils, &c., have been valued at the sum of 152*l.* 1*s.* 2*d.*, and the furniture at 110*l.* 4*s.* 9*d.* The greater part of the furniture, however, is claimed by the bankrupt's mother-in-law. The first meeting of creditors was held on September 7, when no resolution was passed, and under the order for summary administration the Official Receiver is the trustee of the estate. The public examination of the bankrupt is appointed for October 18.

THE NORTH BIRMINGHAM DRUG COMPANY.

THE adjourned first meeting of the creditors of the North Birmingham Drug Company, of Summer Lane, was held on September 20. It was decided that the Official Receiver (Mr. L. J. Sharp) should be the liquidator, with a committee of inspection.

"THERE are at least one hundred new remedies of synthetic origin now in general use that were not known ten years ago." So an American contemporary says; but we doubt if anyone can compile a list of one hundred. Who will try?

Legal Reports.

PROSECUTIONS UNDER THE PHARMACY ACT IN SCOTLAND.

SEVERAL prosecutions at the instance of the Pharmaceutical Society of Great Britain came before Acting Sheriff-Substitute Lym, at the Edinburgh Sheriff Court on Thursday of last week. Mr. P. Morison, S.S.C., appeared for the Society.

John P. Murdoch was charged with three offences against the Pharmacy Act of 1868—namely, (1) that on or about July 15, while in the employment of the Scottish Drug Depot at their premises 49 Leith Walk, Leith, he, not being a duly qualified chemist and druggist, unlawfully sold a quantity of laudanum; (2) that on July 18 he sold a quantity of opium and chloroform, these two poisons forming part of a prescription compounded by him; and (3) that on July 18 he sold another quantity of laudanum.

John Rutherford Hill, Assistant Secretary of the Society, said he made an analysis of the contents of the bottles, and found them to be as described.

Joseph Tai, a clerk in the office of the Pharmaceutical Society, said he, accompanied by Thomas Allan, went to the shop and asked Murdoch for twopence worth of laudanum. He saw Murdoch go to the back shop, take down a large bottle and pour part of the contents into a smaller bottle. He took the bottle to Mr. Hill for analysis. He again went to the shop on July 18 and was served by Murdoch. On the third occasion he saw Thomas Allan give a prescription to Murdoch, and then observed accused hand a bottle to Allan.

Thomas Allan gave corroborative evidence.

Robert J. Young, a chemist in the employment of the Drug Depot, who appeared for the defence, said he was in charge of the Leith Walk branch, but he was absent from July 10 to 24, and during that time to the best of his knowledge there was no qualified chemist in the shop. Accused deposed that it was a general practice in drug-depôts that the dispenser did not need to be a qualified man, because there was always a qualified chemist over him.

In cross-examination witness stated that he was a registered chemist and druggist. The official register was thereupon handed to him, with a request to point out his name in it. He was unable to discover it, however, but stated that he could not understand why his name was not there, as he had a certificate. The omission might have been caused through his change of address. Replying to the Sheriff, he said that he had not his certificate with him; it was in his house.

Mr. Morison: Was there any qualified person in the shop at Leith Walk between July 10 and July 24?—So far as I know, there was none. The unqualified persons there would be doing the ordinary run of business in a drug-store, including the selling of poisons.

Mr. Morison, addressing his Lordship, said it was admitted that the poisons were sold by this man, who was not qualified. This was an infringement of the Act, and it was for the safety of the public that he appeared. He thought this was a very dangerous state of matters to exist in a shop doing a large business of this kind.

The Sheriff found Murdoch guilty of the three offences, and imposed a fine of 5s. for the first and second offences, and admonished him for the third, besides giving expenses modified to 2s.

While the evidence was being led, the Chairman of the Scottish Drug Depot (Mr. Corstorphine), rising in the body of the court, protested against what he called the grossly untrue allegations made against the company, and wished to make a statement; but the Sheriff informed him that, as he was not a party in the case, he had no *locus standi*, and refused to hear him.

James Logan, also in the employment of the Scottish Drug Depot, was charged that, on July 19, at the premises 49 Leith Walk, he, not being a qualified chemist, sold, contrary to the Act, a quantity of opium and a quantity of chloroform, and again on the 19th he sold a quantity of laudanum. He pleaded not guilty. In the course of the evidence it was stated that the boy who bought the poisons was told when

he called at the shop that the qualified man was not in, and that he had better go to another shop. The boy, however, pressed for it, and said he had got it before. The charge was found proved, and a fine of 1s. imposed, with 2s. expenses.

James Johnston was charged with having, on July 14, at 88 Grove Street, Edinburgh, he not being a qualified chemist, sold a quantity of oxalic acid, and again on July 15 he sold a quantity of the same acid at 164 Leith Walk. Accused pleaded guilty, but said he was ignorant at the time of the fact that he was committing an offence against the Act. He kept a drysaltory store, and the acid was used for making blue. Mr. Morison, for the prosecution, said this action was intended as a warning. A fine of 5s. was imposed, with modified expenses.

Alexander Simpson, 67 Dalry Road, Edinburgh, and Robert C. Hunter, 28 West Preston Street, Edinburgh, were charged with similar offences, and were each fined 5s., with modified expenses, the amount of the latter being 2s.

WHAT IS VINEGAR?

AT Merthyr Police Court on Monday, James King Price, a grocer at Dowlais, was summoned for selling vinegar alleged to be adulterated.

Dr. Morgan, the public analyst who had analysed the vinegar bought from Mr. Price, said it contained 30 per cent. of pure malt vinegar, and 70 per cent. of other than pure vinegar, which he had put down as pyroligneous acid.

In a long cross-examination, witness said that, in his opinion, vinegar should be malt vinegar, and that he would reject any other. He was not aware that vinegar was manufactured from articles other than malt. He said that there was nothing deleterious in this vinegar.

For the defence it was contended that this vinegar was the vinegar usually manufactured and sold in this country—that it was manufactured by Messrs. Stephens, Sons & Co., of Gloucester.

Mr. George Embrey, the public analyst for the county of Gloucester, was called, and stated that he did not agree with Dr. Morgan that vinegar, to be true, must be manufactured from pure malt, and that that was the general opinion of the public. He had analysed a portion of a sample sent to him, and had sent part of it to Mr. Hehner. He found no trace of pyroligneous acid in it. He found that it was a sample of pure vinegar. If the sample had been submitted to him as a sample of malt vinegar he would have said it was adulterated.

Mr. Otto Hehner, of London, corroborated the last witness. In his opinion vinegar was "a vegetable juice or infusion which had passed through alcoholic acetic fermentation," and that was the definition usually accepted. This vinegar came within that definition. It was a genuine brewed vinegar.

The Stipendiary stated that it was not alleged that this vinegar was unwholesome. It was a question of whether all vinegar should be brewed from malt. Dr. Morgan said "yes," and referred to the Pharmacopœia, but they preferred accepting Mr. Hehner's definition, and this vinegar clearly came within that definition.

The summons was dismissed.

SINGULAR DEALINGS IN PRECIPITATED CHALK.

(Conclusion of magisterial inquiry).

AT the Guildhall, on Tuesday, September 26, Augustus Levermore, 40, of 8 Lime Street, E.C., chemical merchant, and Charles Randolph Levermore, 45, of 649 Old Kent Road, underwent a final examination before Mr. Alderman Davies on a charge of conspiring to defraud a number of persons.

Mr. Leopold Goldberg conducted the prosecution. Mr. R. H. Humphreys (Messrs. C. O. Humphreys, Son & Kershaw) defended.

At the conclusion of the hearing on Tuesday, September 19, it was decided to adjourn to the following Thursday. Subsequently, however, other arrangements were made, and Tuesday was settled upon.

On the case being called, the defendants surrendered to their bail, and Mr. Goldberg said he proposed to call formal witnesses, who would read correspondence—which in almost every case was identical.

Inspector Thomas Brockwell (of the detective department, Scotland Yard) deposed that in the month of August last he was instructed to make inquiries about Saunders. He watched 32 North Street, New Cross. In the course of the inquiry the four letters produced were handed to him by Messrs. Drysdale & Co., 8 Cree Church Lane.

These were read. They were from John Saunders, asking for a quotation for 25 tons of precipitated chalk, to be supplied "according to sample" at the rate of 5 tons per month. Then there was an answer asking for references, with the rejoinder that no references could be given, as the name of the buyer could not be disclosed, but a deposit would be sent as an earnest of completion of order.

The Alderman: Have I seen these letters before?

Mr. Goldberg: No, sir.

The Alderman: They are identical with others that have been put in?

Mr. Goldberg: Yes, identical.

Mr. Magnus (Messrs. Haller & Co., 66A Leadenhall Street) was recalled, and deposed that on the preceding day (Monday, the 25th) he called on Messrs. James, Lime Street Chambers, when Mr. James gave him the three letters, which he now produced, signed "J. Saunders."

The Alderman: Just the same as the others?

Mr. Goldberg: Yes, sir, exactly.

The Alderman: Something was mentioned at one of the hearings about there being nine cases against the defendants. Is this James's one of the nine?

Mr. Goldberg: I am not sure, sir.

Mr. C. E. Stevens, traveller to Spies Brothers, 102 Fenchurch Street, stated that he was present, on the 3rd instant, when his principal received a letter (produced) signed, "C. Williamson." It was for a quotation for precipitated chalk—5 tons per month—as per sample.

Mr. Goldberg: Like the others.

Mr. E. Thomas Barde, clerk to Messrs. R. W. Greeff & Co., 29 Mincing Lane, stated that on July 23 he received a letter from a person who signed himself "J. Saunders." It was for a quotation for precipitated chalk.

Mr. Arnold Feland, manager to Messrs. Fuerst Brothers, Philpot Lane, said on February 7 he received a letter from a C. Randolph, 71 Oscar Street, Lewisham, asking for the price of precipitated chalk, to be delivered at the rate of 5 tons per month. It was to be according to sample.

The Alderman: This is one of the cases you are going on with?

Mr. Goldberg: Yes, sir.

Witness continued: The letter was answered, and a reference was asked for.

Mr. Goldberg: You believed this was a genuine order from a genuine trader?

Witness: Certainly; and, in consequence of receiving this letter, Augustus Levermore was communicated with, as he knew he dealt in this article; he (witness) had seen his advertisement in the trade papers. Augustus Levermore offered to supply this chalk at 13*l.* per ton; and subsequently a communication was sent to Randolph, stating that he could be supplied with this precipitated chalk, according to sample, at 14*l.* 10*s.* per ton; and on February 10 Randolph wrote to say, "I will take it as offered." On the same day witness received a letter from Augustus Levermore & Co., which said, "Please say if you accept the offer, as we are unable to keep it open any longer." He then communicated with Randolph, asking for a reference. Then on February 13 another letter was forwarded urging the necessity of sending a reference. On February 14 Randolph wrote, "I pay cash on delivery. If this is not satisfactory, cancel the order." In reply to this, witness wrote, "If you like to send a deposit of 25*l.* we will proceed with the order." Randolph sent 15*l.* On February 20, after agreeing with Augustus Levermore & Co. to take a large quantity of their precipitated chalk, he received a letter from Randolph, which said, "Exceedingly sorry to say I must cancel the order, as my customer can't take it. So please return the deposit." On February 27 he wrote to Randolph to say he was responsible, and must take the chalk. But he had never done so. He endeavoured to get Augustus Levermore to cancel the contract, but he would not, and he had to take the 24 tons, and had paid by cheque to Augustus Levermore & Co. 70*l.* 7*s.*, 74*l.*, 77*l.* 11*s.*, and 75*l.*

By Mr. Goldberg: If he had known that Randolph was brother to Augustus Levermore he should never have entertained the order. He believed, as he had said before, that he was dealing with a *bona-fide* trader.

Mr. Alfred Ernest Rayner deposed that he was manager to Messrs. Christopherson & Co., chemical merchants, 17 Great Tower Street. Their firm did not deal generally in precipitated chalk. On March 3 they received a letter signed "C. Randolph," enclosing a sample of chalk, asking if they could match it. Witness went to Messrs. Levermore & Co. as the principal merchants in the market dealing in precipitated chalk. He also sent to Messrs. Levermore the sample he had received from Randolph. Some correspondence then passed between his (witness's) firm and Randolph. Having taken an order from Randolph for precipitated chalk, witness one day went to Levermore's office to make a contract with him. Levermore was not in, and therefore the contract was not made. Since March 18 he had heard nothing from Randolph.

By Mr. Humphreys: The only reason the contract was not made was that because when he called to see Levermore he was not in. Levermore had since written to the firm asking them to make a contract, but they declined.

Mr. Goldberg: You went to another place?

Witness: Yes.

The Alderman: I should like to know from witnesses whether, when they received letters signed Randolph, Saunders, or Williamson, they knew they were dealing with the brother of Augustus Levermore.

Mr. Goldberg (to Mr. Rayner): Did you know that Randolph was Augustus Levermore's brother?

Witness: No.

Mr. Isidore Magnus was then recalled, and, the question being put by Mr. Goldberg, he said he did not know "J. Saunders" was the brother of Augustus Levermore.

The Alderman: I will go further. If you had known it, would you have gone to Augustus Levermore for the chalk?

Witness: Certainly not.

Mr. T. Tyrer, Stratford Chemical-works, Stratford, stated that on July 23 he received a letter signed "J. Saunders," which asked for a quotation for precipitated chalk, and, believing him to be a genuine trader, he went into the matter. Knowing Augustus Levermore to deal in this class of stuff, when he received the sample from Saunders, he communicated with Augustus Levermore, and an agreement was made whereby he was to take 25 tons at 12*l.* per ton, net. On August 10 he received a delivery-order from Augustus Levermore & Co. for 71*l.* 15*s.* 4*d.* He paid this amount. Then he received a communication from Saunders, who said he could not fulfil his contract, "as his buyer had fallen through." He had made no payment whatever. Witness tried to get Augustus Levermore to cancel his contract, but he would not. He was about to push matters when these proceedings were taken. He did not know Saunders was Levermore's brother or he would have had nothing to do with the matter. He should have told him to "go to his brother."

By Mr. Humphreys: He knew some of this chalk was on the market. 130 tons a year was a fair sale for such an article. It was used for tooth-powder.

Mr. Humphreys: And is it not used for soda-water?

Witness: Probably it may be. I have heard it has been.

Mr. Humphreys: Have you had any conversation with Mr. Edwin Levermore—another brother—on this matter?

Witness: No, I have not.

Mr. Birch, Secretary of the Canterbury Gas and Water Works, was recalled. He stated that that company supplied Levermore with chalk. They sold direct to Levermore, who never gave them the names of his customers.

The Alderman asked at what price they supplied this chalk.

Witness replied that he would rather not answer the question. The chalk was obtained from the hard water.

By Mr. Humphreys: He believed that in Canterbury soda-water was made entirely of this chalk. He had known Augustus Levermore about seventeen years, during which time he had always appeared to be a respectable man, and had made his payments regularly. Levermore had the sole contract with them for this chalk.

Mr. Richards (clerk): Why do you object to make public the price you got of Levermore for the chalk?

Witness: It might injure trade.

The Alderman: I am afraid we can't consider that. You must tell us what you charged for it.

Witness: Thirty-five shillings per ton.

Detective-Inspector Wright was recalled, and identified letters signed "J. Saunders," "C. Randolph," and "C. Williamson," as being in the hand writing of Charles Randolph Levermore.

Mr. Goldberg said this closed the case for the prosecution, and he asked for the committal of the accused on charges of obtaining money by false pretences, and conspiring to defraud.

Mr. Humphreys said it was a question as to whether this was a criminal conspiracy. Two brothers agreed to place a certain stuff on the market, which was, in fact, a marketable article.

The Alderman observed that this was a case that would have to go for trial.

Both defendants said they would reserve their defence. They were then committed to take their trial at the October Sessions of the Central Criminal Court, being admitted to bail as before.

Trade Notes.

WE call attention to an "important notice" which the Chemists' Aerated and Mineral Water Association (Limited) insert this week. The directors have secured a fine supply of pure water at the Raven Spring, Mitcham, and there they are fitting up a new factory, which will be opened on Monday. Chemists who wish an afternoon's outing in the lavender country may work in a little business with the pleasure by calling at the new factory. The directors invite them.

A USEFUL little pamphlet entitled, "Facts about Disinfectants," giving indications of the methods of valuation of disinfectants, bacteriologically, chemically, and practically, has been written by Messrs. Helbing and Passmore, and is issued by the Jeyes' Disinfectants Company, whose products it advocates. Messrs. Helbing and Passmore offer to analyse, free of charge, any coal-tar disinfectant which may be submitted to them by any medical man, sanitary officer, or vestry inspector.

WE have received from Messrs. Burgoyne, Burbidges & Co. a copy of "Non-toxic Remedies," by Dr. F. von Heyden Nachfolger. This is a very useful manual, in which the general chemical and therapeutic properties of the "salol" group of compounds are described, and to this is appended similar information regarding the "carbonate" group, which contains such substances as guaiaccol carbonate. The bismuth-phenols are also described, and particulars regarding solvol are given. As the pamphlet deals with several of the latest new remedies, it is one which chemists and medical men will find useful for reference.

MEDICATED WINES AND SPIRITS continue a subject of contention between pharmacists and the French Inland Revenue Department, the latter persisting in prosecuting from time to time. The question of quinine-wine is especially fertile, the department insisting that it is a simple beverage; while, on the other hand, grocers and others find themselves in the ludicrous position of persuading their customers that the quinine-wine they sell is beneficial to health, while before a court of law they are forced to admit that it contains little or no quinine. The latest bone of contention has been kola-wine. The Judge in this case named an expert to decide if extract of kola could be considered medicinal. The latter gave a negative opinion, but ultimately three other experts were appointed, and they have recently reported that preparations made of kola-nut are certainly of a medicinal character. On the other hand, they say that no substance whatever can be said to be exclusively medicinal, as by the use of an infinitesimal quantity it would cease to be such. The case is still pending, and will only be terminated after the vacations, in November or later.

DEEDS OF ARRANGEMENT.

The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Anderson & Adams (James Edward Brunker, pharmaceutical chemist), 63 Grafton Street, Dublin. A petition for arrangement has been presented in the above estate. The following are returned as creditors:—

	£	s.	d.
Allen & Hanburys, London	30	9	9
Anderson, Miss Eliza, Kingstown	145	0	0
Anderson, Mrs. F. A., Rathmines	177	15	6
Anderson, Mrs. Frances A., Rathmines (she will be paid out of proceeds of sale of lands in County Monaghan)	2,080	0	0
Anderson, Mrs. Frances A., Rathmines (will be paid out of fund in Land Court)	183	1	9
Balldon & Co., Edinburgh	15	1	0
Bankers' claims (fully secured by property of wife and life policy)	370	0	0
Bishop, Alfred, & Sons (Limited), London	42	6	11
Boileau & Boyd, Dublin	15	16	7
Cantrell & Cochrane, Dublin	48	11	2
Carruthers, W. W., Dublin	42	4	6
Collector-General of Rates, Dublin	17	13	4
Corporation of Dublin, Dublin	33	7	2
Herrings & Co., London	219	15	3
Howards & Sons, Stratford	32	3	7
Ingram & Royle, London	50	13	4
Langton, Edden & Co., London	27	17	11
Longfield, R. O., Dublin	31	5	0
Lynch & Co., London	72	17	8
McCormick, E. H. (Bank of Ireland), Ballinrobe (hold security on stock-in-trade, premises, and book-debts of business)	1,000	0	0
Maw, Son & Thompson, London	95	0	0
Newbery, F., & Sons, London	106	2	11
Scottish Widows' Fund, Edinburgh (fully secured by mortgage of life policy)	450	0	0
Sumner & Co., Liverpool	42	0	0
Wright, Layman, & Umney, London	65	11	5
York Glass Company (Limited), York	35	19	4

Vinson, William, 31 Wellington Street, Millom, chemist and druggist. Trustee, Robert K. Soutar, Moor Terrace, Millom, accountant. Dated September 21; filed September 22. Unsecured liabilities, 198*l.* 9*s.* 2*d.*; estimated net assets, 100*l.*; creditors fully secured, 30*l.* The following are scheduled as creditors:—

	£	s.	d.
Ayrton & Saunders, Liverpool	93	15	0
Lawrence, W. T., Millom (preferential)	23	0	0
Haines & Co., York	57	15	5
Sumner & Co., Liverpool	14	9	10

(And five under 10*l.*)

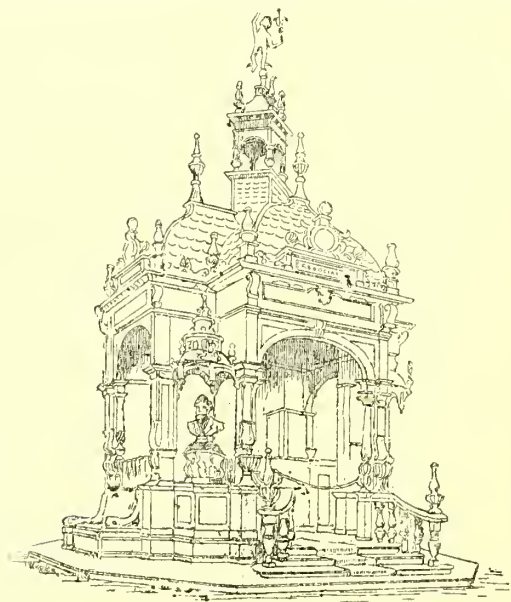
MUTUAL ASSURANCE AGAINST ACCIDENTS in pharmacy appears to be practised with poor success by the Mutual Society that exists under the direct patronage of the General Association of Pharmacists of France. The Society was established in October, 1890, but up to May 1 of the present year, only 145 members had joined. The management hopes, however, that pharmacists will soon appreciate the advantages offered, it being evident that every member of the craft has an interest to be insured, while, also, by co-operation, the premium can be reduced to a minimum. As a matter of fact, the amount paid by adherents was 8*s.* each in 1891, and only 7*s.* 25*c.* in 1892. In the first place a capital of 12,950*l.* was formed by subscription, to which was added 20*l.* admission-fee from each member. The indemnities allowed to victims, whether for fines, law costs, &c., are totalised at the end of each year, and are then divided according to the number of assistants employed by those insured, which amount constitutes the premium to be paid. The Assurance Society does not guarantee more than 10,000*l.* for any single accident.

The World's Columbian Exposition, Chicago.

IN our earlier reports of the Exposition we have referred to the part in it played by Germany. No European nation has attempted to exhibit national industries on the scale which Germany has covered in illustrating hers. The German Government have spent 2,000,000m. in promoting the general interests of their manufacturers, and although this is only 40 per cent. more than our own Government have appropriated to British interests, the Germans have more to show for their expenditure. The German Commission is housed in what appears to be a reproduction of an old Rhine-land *Schloss*, resembling somewhat the Elizabethan mansion used by the British Commission, but ampler in proportions, and notable for a fine exhibit of books, &c., which draws in crowds of people all day long. But that is a small item in a galaxy of productive effort. In whatever part of the "White City" industry is represented Germany is there, prominent, and in most instances leading the way. We are only concerned with the chemical, educational, and scientific exhibits, but anyone who uses his eyes cannot fail to notice that in the Machinery Hall Germany is beaten by the United States only. The major portion of the mineral-water exhibits in the Agricultural and Mining Buildings are German, and if the show in the electricity section is poor, the gallery of the building contains exhibits of scientific and surgical instruments which furnish several days' study to the intelligent visitor.

The bulk of material collected by our commissioner in these various courts is so great that we have been compelled to delay publication of his notes until we could see our way clear to treating the subjects consecutively, and when we say that these notes would take up as much space as we have so far devoted to the Exposition, those who have not seen it may imagine what they have missed. While we wish to do German exhibitors full justice, we cannot, without sacrificing other interests and risking the good will of those who read these notes, venture upon a complete cyclopædia of German manufactures. As graphically as possible, therefore, we shall deal with the most interesting exhibits.

THE CHEMICAL AND PHARMACEUTICAL COURT is in the Manufactures Building, off the Columbian Avenue, a part of the large section of the ground floor allotted to Ger-



man manufactures. The construction of the court and the arrangement of the cases is the work of the Association of the

Chemical-factories of Germany. The disposal of the spaces and the number of exhibitors may be seen by reference to the ground plan on the next page. The design of the whole is an improvement upon the Pharmaceutical Court of the Paris Exhibition, which has been taken as the model, and, like it, there is in the centre a pavilion, used as an inquiry office by the Secretary to the committee. This pavilion, of which we give a sketch, is a handsome structure, well upholstered, and in niches at each corner are busts of four famous German chemists—Liebig, Hofmann, Bunsen, and Wöhler.

ABOUT THE ASSOCIATION.

The Association for the Protection of the Interests of the Chemical Industry of Germany is a body which scarcely has a parallel in this country. It may be likened to a combination of our Society of Chemical Industry and the Chemical Sections of our Chambers of Commerce. It was founded in 1877, has headquarters in Berlin, and publishes a journal called *Die Chemische Industrie*. It was this Association, as has been said, which organised the chemical and pharmaceutical exhibit. Moreover, they were the first to see that the Chicago Exhibition offered German manufacturers an opportunity such as they have not had for a generation of showing in a collective way the commercial capabilities of the country. A committee was appointed, with Dr. J. F. Holtz, of Berlin (principal director of Schering's), as chairman, who planned the whole exhibit, and divided chemical manufactures into seven sections according to their nature. We shall follow the committee's arrangement as far possible. But it is desirable to glance first at the present

CONDITION OF THE GERMAN CHEMICAL INDUSTRY

as it has been presented to us by the committee. We are apt sometimes to think our chemical experts make too much of the cry that the English chemical industry grows lean as the German grows fat. It would be comforting to contradict this, but with the figures for both countries before us it is cold comfort. There are eight notable districts of chemical industry in Germany, with works and workers distributed as follows:—

	Factories	Workers
Berlin district ..	884 ..	13,596
Breslau ..	497 ..	6,257
Cologne ..	810 ..	16,585
Frankfort ..	369 ..	10,590
Hamburg ..	735 ..	15,337
Leipzig ..	1,090 ..	16,478
Mannheim ..	418 ..	15,683
Nürnberg ..	470 ..	5,749
Total ..	5,273	100,285

These figures are for 1891. Let us compare them with those for England as revealed by the last census, and taking in chemistry in its widest sense we obtain the following figures:—

Workers employed in producing colouring-matters ..	4,545
" " drugs, chemicals, &c. ..	44,880
" " explosives ..	6,622
Total ..	56,047

In these figures are included soap-makers, &c. They virtually represent the same industries as are included in the German figures. There is, however, a somewhat more cheering aspect when we turn to

THE ALKALI-INDUSTRY,

which is placed first in the German arrangement, and is represented in the Exposition by seven firms, all of whom overlap more or less into other branches of chemical technology. The principal fact to be noted here is the steady

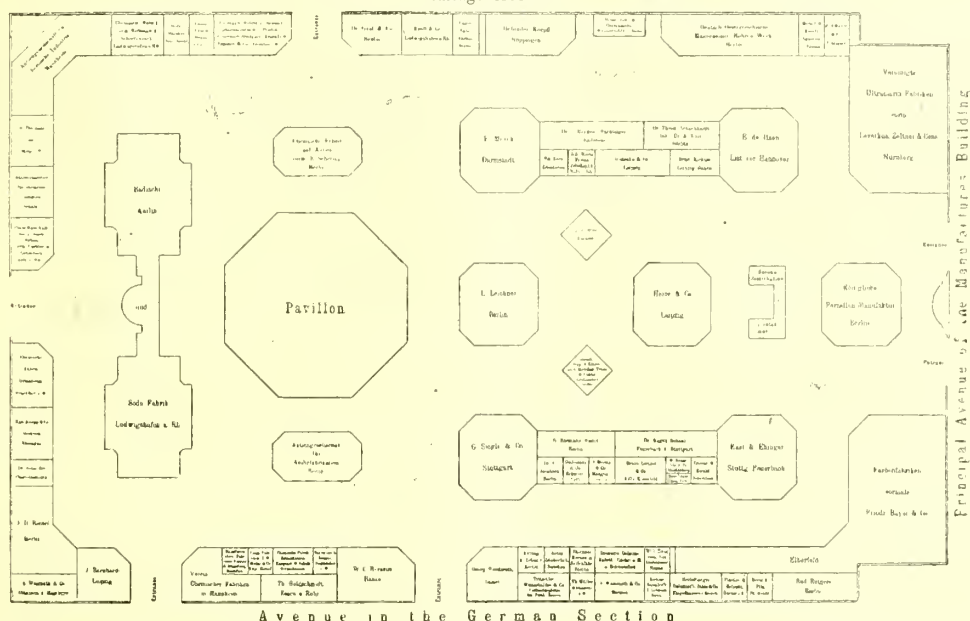
increase of the alkali industry in Germany. In 1877 the total production of alkali there was 42,000 tons, and 27,000 tons had to be imported to meet the consumptive demand. The produce increased steadily until 1890, when the output was 195,000 tons, of which 33,000 tons were exported. While these figures show progress which must be gratifying to the Teutonic mind, they become insignificant when compared with the quantities of alkali produced in the United Kingdom. Indeed, we have only to cross the Exposition Avenue to find in Brunner, Mond & Co.'s exhibit the produce of one English firm which is equal to nearly the whole of the German alkali-manufacturers' turn-out. In 1890 the amount of salt used for English alkali was 855,029 tons, of which 602,720 tons was for the Leblanc process, and 252,260 tons for the ammonia-soda one. Germany, in the same year, used about 300,000 tons of salt. In respect to this staple raw commodity we are not in it, the Stassfurt mines now showing an annual output greater than the whole of the salt raised in England. Thus, in 1891, Stassfurt furnished 2,543,600 tons and England 2,146,849. Of course Stassfurt "salt" is not all sodium chloride, and that is where the figures (which are official) are misleading, whereas our salt is all stuff that can be used for making soda. However, after all is said in

and many medicinal chemicals are amongst the company's manufactures.

A company with the same title, whose works at Schalke (Westphalia) are managed by Dr. A. Hofmann, confines its operations to the production of "alkali," oxalates and chromates. According to the statistical statement contained in their exhibit, the company have seven melting and ninety-six calcining furnaces, and their yearly output of the staple products is:—Sulphuric acid, 8,000 tons; potassium carbonate, 7,000 tons; hydrochloric acid, 12,000 tons; potassium sulphate, 7,500 tons; oxalic acid, 600 tons; yellow prussiate, 36 tons; barium chloride, 1,200 tons; zinc chloride, 200 tons; sodium sulphide, 500 tons; and sodium hyposulphite, 2,000 tons. The company also work up antimony ores. They show specimens of most of the substances we have named, and the most interesting are the different kinds of potassium carbonate, such as 80–84 per cent., 90–92 per cent., and 96–98 per cent., the last being almost anhydrous. There are beautifully-granulated salts, white and dry, the more hygroscopic varieties assuming the largest granules. We also admired the potassium binoxalate, on account of the total absence of colour, and its translucency, and sharpness of crystal.

The *Badische Anilin- und Soda-Fabrik*, of Ludwigshafen,

Plan of the German Chemical Collective Exhibition in the Manufactures Building
Chicago 1893.



favour of our own chemical-industry, there remains the fact that Germany has salt and coal as we have, and that nowadays she is making so much use of them that we must regard her as a probable competitor in alkali. Turning now to

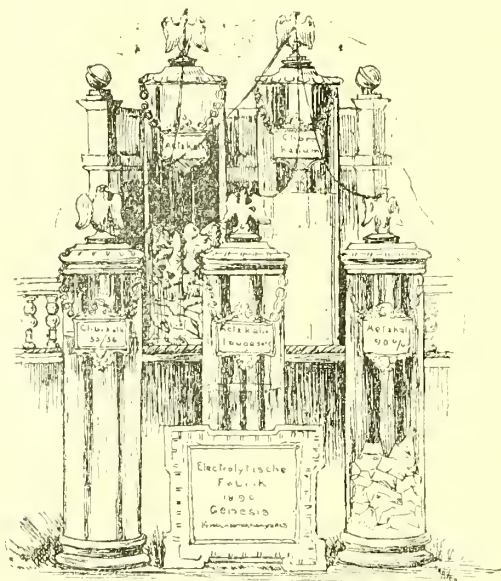
THE EXHIBITS.

the first we have to deal with is made by *Actiengesellschaft für Chemische Industrie* (Mannheim), a company which has factories at Rheinau (Baden) and Barmen. Oil-paintings of both of these form an effective background to the case in which the specimens are displayed, and these specimens are chiefly notable for the immense steel cylinders which flank them. The company are large producers of liquefied CO_2 , SO_2 , and ammonia, which fact accounts for the presence of the cylinders. "Alkali," in the strict sense of the term, does not bulk largely in the exhibit; indeed, the most notable specimens which we observed were carboic acid of various qualities and some of its derivatives—*e.g.*, picric acid—as well as other substances "won" by distilling tar. Some of the largest crystals of potassium chlorate which we have ever seen are shown, few being less than $\frac{1}{2}$ oz. in weight; and this is but one of many products exhibited in which free chlorine is utilised—*e.g.*, chloral hydrate. Metallic salts used for dyeing, a complete series of oxysulphur salts,

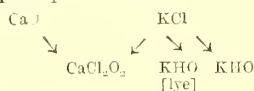
have the biggest and finest case in the court; but one looks in vain for soda in the glory and profit of aniline and alizarine. Colours have put alkali entirely out of account, except for their own immediate needs—in fact, the company do not sell alkali, but use all they make in their aniline-works.

Without exception the most original exhibit in the whole section is that of the *Chemische Fabrik Griesheim* (Frankfort). The company was formed about forty years ago for working up gold and silver sweepings, but it soon added Leblanc soda, sulphuric acid, and, more recently, the fractionation of tar-oils to its works. The company now ranks as a pioneer in the electrolytic production of alkali. The exhibit illustrates in the most interesting manner alkali and aniline manufacture, the production of caustic potash by electrolysis, and the manufacture of explosives. The case in which the exhibit is placed occupies a corner (see plan), and is divided into four sections by a handsomely-carved stand of unpolished German walnut. The summit, or wall-spaces, of this cabinet-work contains coloured pictures of the three factories which, we may say, give employment to 900 men. Each of the four sections of the case contains a complete series of specimens illustrating the genesis of the marketable products. We have selected the smallest group

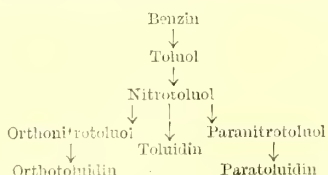
for a sketch which shows the plan adopted throughout. This illustrates the electrolytic genesis of caustic potash.



Here are five jars, each standing in a cup of greyish metal the same as is used for the eagle-capped cover. From the mouth of each eagle issues an arrow-tipped chain, and following these we see that 2 kilos. of potassium chloride by electrolysis is split up as follows:—



There are thus obtained about 3 kilos. of bleaching-powder (35 per cent. Cl.), about 2 litres of potash-lye (50° Baume), and about 1½ kilo. of caustic potash (90 per cent.). All the jars contain as near as possible the working amounts of the products obtained. In contrast with the simplicity of the electrolytic method (which has been in operation on a manufacturing scale at the works since 1890), the complexity of the Leblanc process is astonishing. Here the manufacture of sulphuric acid has of course to be introduced, and what with Rio Tinto pyrites, Chili nitre, &c., we get, altogether, twenty-eight jars of materials, and the source of each one can be easily followed. Beside this the genetic exhibition of aniline manufacture seems less complicated, for here only twenty-four jars are employed, and, tracing their contents, we get the following fraction of the family tree:—



It is interesting to note the gradual change in physical state which is exhibited. Benzin, toluol, and nitrotoluol are liquid, and so are the products on the left arm. Toluidin is a red liquid, and the products on the right arm are solid, the paranitro compound being in yellow crystals, which colour vanishes to grey when the nitro-group is knocked out. "Deinite," an explosive discovered in Griesheim, is the subject of the fourth group, and here a kilo. each of benzol, phenol, and toluol are the starting-points, and these are traced through the nitrating stages to the finished product. It is of further interest to note that monohydrated sulphuric acid is an important element in the manufacture of these organic compounds, and that since 1885 the company has prepared this by freezing ordinary English acid. Sulphuric acid is, however, made at the company's works in Spandau.

The exhibits by the *Chemische Fabrik Kalk* (Cologne) and the *Stassfurter Chemische Fabrik* (Stassfurt), are associated in respect to the fact that the firms were founded by the same men—Julius Varster and Dr. H. Grunberg. The former company is exclusively devoted to refining Stassfurt minerals, and the latter work on the same lines, but pay special attention to the manufacture of cyanides by a patent process. They exhibit some beautiful specimens of potassium-cyanide and urea, the latter giving us an index of the source of the cyanogen.

The *Verein Chemischer Fabriken in Mannheim*, although one of the principal alkali companies in Germany, are not particularly prominent in the Exposition, for their exhibit is somewhat conventional. In addition to the various kinds of alkali, what may be called by-products are exhibited, and these include acetanilide and Pictet's chloroform.

AWARDS TO BRITISH EXHIBITORS.

Intimation has been received of the following decisions by the judges in the Agricultural Section of awards to exhibitors in Group XVIII., which comprises fats, oils, soaps, candles, &c.:—

Price's Patent Candle Company (Limited), Battersea, S.W., five awards for stearin, paraffin, toilet soaps, glycerine, and candles.

Ingham's Eucalyptus-oil Company, Rockhampton, for eucalyptus oil and "Spotted-tree" gum.

Quibell Brothers, Newark-on-Trent, for soaps.

The last-named firm exhibit their products in the Manufactures Section, the Price and Ingham Companies being the only ones who are classified in Group XVIII. We may, therefore, take it that other exhibits of soaps and oils which are classified amongst manufactures have yet to be dealt with. The following awards are also announced:—

Colombo Oil-mills, Ceylon, extra fine white cocoa-nut oil and ordinary cocoa-nut with husks.

Grimlinton, Hon. J. J., Ceylon Commissioner, cocoa-nut oil.

Herkwood & Co., croton and other oilseeds.

Desouza, Charles, cocoa-nut oil.

Clark, Spencer & Co., citronella oil.

Conservator of Forests, India, collection of oils.

Inspector-General of Forests, India, collection of seeds.

Walker, H., Retreat, Jamaica, cocoa-nut oil.

Sydney (N.S.W.) Meat-preserving Company, neatsfoot and trotter oils.

The following awards have been made in the Liberal Arts Section:—

F. Darton & Co., St. John Street, E.C., meteorological instruments.

Riley Brothers, optical lanterns and slides.

Ross & Co., London, lenses, field-glasses, and instruments.

W. Watson & Son, London, (1) mathematical, astronomical, surgical, and English instruments; (2) lanterns; (3) photographic lenses, &c.

R. & J. Beck, London, photographic-apparatus.

Gazette.

PARTNERSHIPS DISSOLVED.

Morris, M. A., Morris, J., Alty, B., and Isherwood, A., executors of J. Morris, deceased, and M. Isherwood and A. Isherwood, executors of J. Isherwood, deceased, under the style of Thomas Roston & Co. Ramstbottom, manufacturing chemists.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDER.

Ibbotson, Jane (trading as F. Ibbotson), Wakefield, chemist and druggist.

ADJUDICATIONS.

Coates, Thomas Mallalien, Loughborough, Leicestershire, veterinary surgeon.

Johnson, Fletcher Atkinson, Manningham and Bradford, chemist.

Hillpott, William, Barnsley, herbalist and patent-medicine vendor.

Business Changes.

MR. W. ARTHUR ROBERTS has opened a new chemist's shop at 4 Queen's Buildings, Clonmell Street, Llandudno.

A NEW pharmacy is about to be opened at 126 St. Stephen's Green, West Dublin, under the name of Jackson & Co.

MESSRS. JAHN & BERGER, drug-merchants, have removed their offices from 29 Gracechurch Street to 19 Laurence Pountney Lane.

MR. J. BARGE, chemist, of Old Town Street, Plymouth and Mutley Plain, has taken No. 10 Belgrave Terrace, which he will open as a pharmacy.

MR. REEVES, who was formerly in partnership with Mr. Brothers, chemist and druggist, High Street, Ashford, Kent, has commenced business at the Fort, Margate.

MESSRS. SMITH & INGRAM have opened a drug-store at 121 Lewisham High Road, New Cross. Mr. G. T. Ingram, one of the partners, was formerly dispenser at St. Bartholomew's Hospital.

MR. D. A. SUTHERLAND, analytical chemist, having dissolved partnership with Mr. G. J. Snelus, will henceforth carry on practice alone at 2 Victoria Mansions, 28 Victoria Street, S.W.

MR. ALBERT E. BEARD, pharmaceutical chemist, has succeeded to the business of the All Saints' Pharmacy, All Saints' Street, Norwich, hitherto carried on by Mr. D. Goddard Nicholson.

MR. JAMES SMART, formerly with Messrs. McJannet & Co., of East London, South Africa, has acquired the business of the late Mr. H. Thistleton, 19 Market Square, Port Elizabeth, which is now carried on under the style of Smart & Co.

New Companies.

EMPIRE DRUG COMPANY (LIMITED).—Capital 1,000*l.*, in 5*l.* shares. Objects: To carry on business as manufacturers and vendors of medicinal specialities, toilet-perfumery, and proprietary articles, and dispensing and family chemists, &c. The first subscribers are:—Alice Crouch, 30 Summerhill Road, Tottenham, widow, 28 shares; H. J. Saunders, 33 Kynardale Road, N., traveller, 2 shares; W. F. Mundy, 258A Mare Street, Hackney, E., director, 50 shares; J. A. Swan, West Green Road, Tottenham, foreman; A. Boyes, Montague Road, Hornsey, N., traveller; A. E. Mundy, 34 Broekbank Road, Earlsfield, S.W., laboratory-assistant; Benjamin Mundy, 62 The Avenue, Tottenham, one share each. Registered without articles of association, with the registered office at 258A Mare Street, Hackney.

FOOTE, MARTINDALE & SMYTHE (LIMITED).—Capital, 30,000*l.*, in 1*l.* shares. Objects: To acquire the businesses of mineral-water manufacturers now carried on respectively by R. Foote, H. Martindale & Co. (Limited), and J. M. Smythe (all at Liverpool), and R. Johnson, Ince, Wigan; and to make, manufacture, and sell mineral and aerated waters, fermented non-alcoholic and alcoholic beverages, essences, cordials, and vinegar. The first subscribers are:—J. Parrington, Roby Mount, near Liverpool, wine and spirit dealer; E. J. Chevalier, 30 Johnson Street, Liverpool, brewer; J. Neill, 117 Dale Street, Liverpool, manager; E. Burns, 46 West Derby Street, Liverpool, contractor; J. Jude, Litherland Park, near Liverpool, accountant; R. Johnson, Ince, Wigan, mineral-water manufacturer; R. Foote, 42 Brownlow Street, Liverpool, mineral-water manufacturer; J. M. Smythe, 92 Great Crosshall Street, Liverpool, mineral-water manufacturer. The first directors are J. Parrington, R. Scott, J. Neill, and E. Burns, and after allotment R. Foote, J. M. Smythe, and R. Johnson. Qualification, 200*l.*

Personalities.

MR. L. O. JOHNSON, of the firm of Fassett & Johnson, Snow Hill, sailed on Wednesday by the *Majestic* for New York, Chicago, &c.

A CURIOUS note may be taken in respect of one of the announcements in our marriage-list this week. Within the past eleven months one son and three daughters of Mr. Councillor Marshall, chemist, of Beverley, have entered into matrimony. Wedding-congratulations must have become monotonous to Mr. Marshall by this time.

MR. H. H. WARNER came to England last month, "because," said Mrs. Warner to an interviewer, "his presence is needed to straighten out the complications which followed his recent assignment. The English company to which he sold the greater part of his business had a dispute with him concerning the stock he retained. He has gone over to protect his interests."

ON the resumption of Divine service at the City Temple on Sunday last the Rev. Dr. Joseph Parker announced that three new stained-glass windows had been given by friends in commemoration of the one thousandth Thursday-morning service. One of these was an offering from Mr. S. M. Burroughs. It has been associated with the memory of "David Livingstone, the Apostle of Africa." The subject chosen is the moment at which the inscription was placed above the Cross, and the picture strongly reminds one of Rubens's well-known "Elevation of the Cross," in Antwerp Cathedral.

MARRIAGES.

DUCKERING—DAVIS.—On September 7, at Edgbaston Parish Church, Birmingham, by the Rev. Cresswell Strange, rector, R. Duckering, chemist, Deepfields, Staffs, to Emma Sarah, daughter of the late Mr. Charles Davis, Birmingham.

HUMPHREYS—BALMFORD.—On September 21, at St. Martin's Church, Coney Street, York, by the Rev. H. Vyvyan, Arthur Humphreys (of Messrs. Bleasdale & Co.) to Rose, youngest daughter of Mr. George Balmford, Holgate, York.

NORFOLK—MARSHALL.—On September 20, at St. Mary's, Beverley, by the Rev. Canon Quirk, John William Norfolk to Mary Jane, daughter of Mr. Councillor Marshall, chemist and druggist.

DEATHS

BOWLES.—On September 18, William James Bowles, chemist and druggist, Kensington, London.

CHING.—On September 25, at 31 Albert Road, Morice Town, Devonport, John Ching, formerly of Keyham Yard, and of late years the faithful caretaker of Mr. Philip Kelly's pharmacy. Aged 74.

HEATON.—The death is announced of Mr. C. W. Heaton, professor of chemistry in Charing Cross Hospital. Mr. Heaton commenced his studies first in the laboratory of Dugald Campbell and afterwards under Dr. Stenhouse, in the laboratory of St. Bartholomew's Hospital, where he was fellow-assistant with Professor Kekulé, Dr. Attfield, and the late Professor Tuson, of the Royal Veterinary College, Camden Town. He was appointed lecturer at Charing Cross Hospital in 1862. Mr. Heaton was examiner in chemistry to the Royal College of Physicians and to the Royal College of Veterinary Surgeons, was Treasurer to the Society of Public Analysts, and filled the office of public analyst to the parish of St. Martin-in-the-Fields.

STEVENSON.—The death is reported of a well-known Sheffield chemist and druggist, Mr. William Stevenson, who for thirty-four years carried on a successful business at 121 Infirmary Road. The deceased, who was 70 years of age, started business in 1855 in the same neighbourhood, and removed to the Infirmary Road shop four years later. This he had successfully carried on ever since, particularly developing a trade in certain medicinal specialities which became very popular, and proved a source of considerable profit. In the Totley Orphanage Mr. Stevenson took great interest, frequently conducting the services, but apart from this work he took little part in public affairs. He died at his residence, Woodleigh House, Totley Brook.

KINGZETT'S PATENT SULPHUR FUMIGATING CANDLES

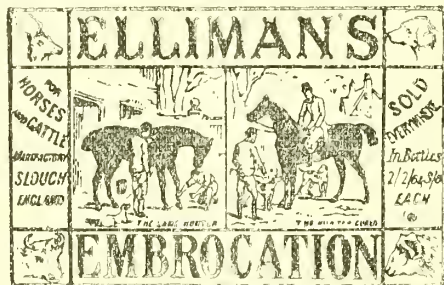
ARE FAR AHEAD OF ALL OTHERS.

TRADE TERMS:—

6d. candles ... 3/10 per doz. net.
1s. " (water jacketed)... 6/10 "
They are lighted with the greatest ease, and burn steadily and thoroughly, ensuring more secure Disinfection than any others.

THE SANITAS CO., LIM., BETHNAL GREEN, E.

SHOW CARDS, 24 × 17 or 17 × 12.
Sent to any address in the United Kingdom.

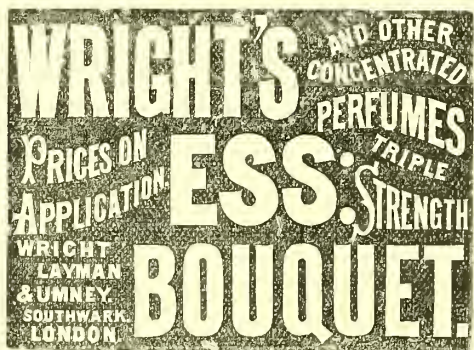


See first page, inside of front cover, of the first issue of this month, for latest particulars.

DAY'S BLACK DRINK

Is the most popular and certain Veterinary Remedy in the World. Don't confound it with Elixirs, Draughts, &c., which for obvious purposes are called "Black." The title is a registered one, but many "black" things are offered in its name; the only genuine is prepared by

DAYS OF CREWE, Animal Medicine Specialists.



SILICATED CARBON FILTERS

PATENT SELF-AERATING
MOVEABLE BLOCKS
WORKS, BATTERSEA LONDON. S.W.

MUMFORD'S

(FARRINGTON ROAD, LONDON, E.C.)

THE BEST THAT CAN BE PRODUCED.

PURE CRUSHED LINSEED	18/	1 cwt. carriage paid; or * 7, 14 & 28 lbs. free on rail Lond.
PURE STARCH POWDER	26/	1 cwt. carriage paid; or * 7, 14 & 28 lbs. free on rail Lond.
PURE FULLER'S EARTH (Light Colour)	16/	1 cwt. carriage paid; or * 7, 14 & 28 lbs. free on rail Lond.
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* CARRIAGE PAID *

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Composed of Kepler's Malt Extract, Liebig's Beef Extract, and old Alto-Douro Port Wine. Being a standard preparation, it commands a ready and a steady sale. Order through your Wholesale House, or direct from
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Works—Salzbach Buildings, St. Mary's Place.

THE OLDEST ENGLISH & AMERICAN CHEMIST
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BOISSY & GALLOIS

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would undertake one or two additional
agencies for patent Medicines, Sundries, etc.
Special connexion amongst Doctors
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MELLIN'S THE BEST FOOD FOR INFANTS & INVALIDS.

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"WE have submitted a number of FLETCHER'S CONCENTRATED LIQUORS to a prolonged test, and we have had THE MOST SATISFACTORY RESULTS. Both in flavour and in medicinal properties they were equal to the best preparation we could prepare from fresh drugs."

Editorial Comments.

LEGISLATION IN 1893.

THE most obvious result of the labours of our legislators in the Parliamentary Session lately adjourned, so far as the trading classes are concerned, has been the increase of the income-tax from 6d. to 7d. in the pound. Amid the ocean of oratory which has surged round the Government of Ireland Bill, statutes have been passed at occasional moments, a few have almost arrived at their final stages, and a goodly number, though dropped for the present Session, have passed through a more or less thorough preliminary discussion.

The majority of the Acts passed are administrative. The Local Government Boards of Great Britain and Ireland, for

instance, have got no fewer than twenty-six new statutes during the Session, these being merely the confirmation by enactment of certain provisional orders. So, too, seven electric-lighting provisional orders have been passed into Acts of Parliament. Two Statute Law Revision Acts have been passed. The object of these has been merely to simplify the statute-book by repealing enactments which have ceased to be in force, or have become unnecessary. An excellent piece of legal work has been accomplished in the Sale of Goods Bill, which now only awaits the Royal Assent. This Bill, on which we have commented in past years, codifies the statute and common law relating to buyers and sellers. Nothing new has been introduced, the purpose of the Bill being simply to represent in one enactment the actual condition of the law of England on this important subject. This measure alone would be of sufficient general utility to rescue the Session from a charge of barrenness.

A very important Act to agriculturists and to vendors who supply them with cattle-foods and fertilisers is the Fertilisers and Feeding-stuffs Act, a Government measure which makes it obligatory on the vendor (wholesale or retail) of any substance intended for use as a fertiliser of the soil to give to the purchaser an invoice, stating the name of the article, and indicating whether it is an artificial substance, and, approximately, the percentage of the nitrogen, soluble and insoluble phosphates, and potash which it may contain. This invoice is to have the legal effect of a warranty. The name or description of any article sold for use as food for cattle is also to be regarded as a warranty, and the mixture of any seeds or the produce of any seeds not named with it is to be penal. The Board of Agriculture is to engage a "chief analyst," who shall give his whole services to them, and county councils are to appoint district analysts, who, it is provided, are not to be connected with the sale or importation of artificial manures or feeding-stuffs. Analyses to enforce this Act are to be conducted by the district analysts, and there is a right of reference to the chief analyst. It is evidently sought to make *bonâ-fide* buyers the prosecutors where possible, but power is reserved for non-interested inspectors to take action if desirable.

Certain attempts to limit the hours of labour in shops have been made. On March 21, on the initiative of Sir John Lubbock, who was cordially supported by the Home Secretary and Mr. Chamberlain, the House of Commons agreed to the following resolution:—

That, in the opinion of this House, the excessive and unnecessarily long hours of labour in shops are injurious to the comfort, health, and well-being of all concerned; and that it is desirable to give to local authorities such powers as may be necessary to enable them to carry out the general wishes of the shopkeeping community, with reference to the hours of closing.

A Bill amending the Shop Hours Act, by empowering county councils and borough councils to draw on county and borough funds to enforce it, has passed the House of Commons, and has got through its second reading in the House of Lords. A Railway Servants' Hours Act empowers the Board of Trade to limit the hours of overworked railway-men.

A Public Health (London) Act amends the Public Health (London) Act in a number of details, its object being to facilitate the regular cleaning of ash-pits, to prevent the cutting-off of water-supply for non-payment of rates, to make further provision against the spread of infectious diseases, to provide mortuaries where needed, to provide for more sanitary inspectors and improve their status, and to enable the County Council to make by-laws providing for registration of owners of, and air-space about, buildings.

A Swine-fever Act enables the Board of Agriculture to take energetic measures to stamp out swine-fever. Provision is made for compensating farmers when the Board orders the slaughter of their animals.

Proposals for the registration of architects, midwives, and plumbers were submitted, but there was not sufficient urgency about any of these to provide the impetus necessary to push them through such a crowded Session. Our old friend the Firms Registration Bill appeared again, but was submerged before a second reading could be attained. A Bill to provide for the remuneration of common jurors got as far as the Committee of the House of Commons, but could not get further; and one for the exemption of efficient volunteers from jury-service was read a second time. Another for the exemption of members of fire-brigades was introduced, but never reached a second reading.

Among other unsuccessful attempts at legislation, the Bishop of Chester's Authorised Companies Liquor Bill was a notable event. The object of the Bill was to authorise county councils, on the vote of a majority of ratepayers in any district, to take over the administration of the drink-trade in that district, due regard being paid to the rights of existing dealers. The Bill met with some support, but was negatived on its second reading.

The year's legislation is not yet complete, but the sketch given above will show that the Session, even so far, has not been an entirely wasted one.

FAILURES AND THEIR CAUSES.

THE official statistics of bankruptcies and deeds of arrangement just published by the Board of Trade show a considerable increase in both in 1892, as compared with either of the three previous years. In 1892, 4,635 receiving orders and 3,333 deeds of arrangement were registered. This is the highest number since 1888, when the numbers were 4,826 and 3,495 respectively. But there is one particularly bad feature about the 1892 figures. Not only are the total liabilities of the failures considerably higher than even in 1883, but the gap between them and the estimated assets is also greater, the result being that, after allowing one-third of the estimated value of the assets for loss on realisation, the department calculates that the total loss to creditors in 1892 must have reached the sum of 10,690,453*l.*—a total which considerably exceeds that of any year since the Act of 1883 came into operation, but still very much less than was regularly the case under the Act of 1869.

Ten million pounds is an almost infinitesimal fraction when compared with the mighty bulk of the commerce of the nation. It represents considerably less than sixpence in the pound of the national income. Compared with all the buying and selling that went on in this nation in 1892, it would not amount to anything like a farthing in the pound, and yet it looms big in the perspective of most of us. Bad debts are a sore place with everybody in business, from the smallest tradesman to the greatest merchant. Of course our debtors are not always bankrupts. Men cheat us and flourish on the proceeds for years; many of them avoid the Bankruptcy Court all their lives. These are generally the upper classes—people unsoiled by trading associations. They have no interest in filing their own petitions, and it would be all loss if a creditor were to take the duty on himself. Insolvent traders, too, have of late years discovered a new way of avoiding bankruptcy, which is alluded to by the Inspector-General in this report. By the simple process of converting their businesses into limited liability companies, and raising some debentures on it, they can often tide over their personal indebtedness, and when the ine vit

able day of reckoning comes it results merely in a winding-up of the company, and involves no disability or disgrace on the individual.

The annual report of the Inspector-General (Mr. Smith), which is the principal part of the general report, is always of special interest. Mr. Smith is evidently an official who looks beyond the bare statistics of his department, and appreciates their significance. This year his contribution is very rich in interest. He gives thirty-two concise but very vivid character-sketches, drawn from the records of the High Court in 1892. These thirty-two sketches comprise all the bankruptcies investigated in that court in which the liabilities exceeded 20,000%. Each "case" is a romance in outline. There is the widow whose business was wrecked by a manager; the young man without business experience, who put his capital into an insolvent and speculative business; the merchant who financed another business; others who came to ruin through speculating on the Stock Exchange; the solicitor who misappropriated trust-moneys; the reckless traders who fail every few years for magnificent amounts; the physician who tried to run a club; and, perhaps most interesting of all, the man who, having realised a fortune of 48,000% on the turf, invested it all in a drapery business, and came to grief.

Basing his calculations on these, and we suppose on other facts within his knowledge, Mr. Smith has attempted to apportion the insolvencies of the London district in percentages according to their causes. This is a very curious estimate. He considers that insolvencies resulting from accidental circumstances beyond the control of the debtor, or from the fraud or failure of others, amount to only about 2 per cent. of the whole. Another 2 per cent. are attributed to crippling of businesses by sudden withdrawals of capital. Traders struggling against unprofitable conditions, and spending far more than their business income, provide 5 per cent. of the total. These 9 per cent. are the only failures which may be regarded as more or less legitimate. The great cause of failure (56 per cent.) is put down to a haste to be rich—traders tempted into too rapid extension, or into enterprises of which they have had no experience, often leading to the use of accommodation bills. Gambling on the racecourse or on the Stock Exchange accounts for 7 per cent. of the failures, and another 7 per cent. is debited to other speculative ventures upon credit. The remaining 21 per cent. of the insolvencies are those of speculative and often fraudulent adventurers, who commence their career, as a rule, without any capital.

It must be understood that this classification applies only to the larger failures—that is, those with liabilities exceeding 20,000%. It "does not necessarily apply," says Mr. Smith, "in the same degree to the smaller ones." It would be fairer and more accurate to say that it most certainly does not apply to such. A good half of the insolvencies of retail traders are preceded by painful struggles for years against adverse circumstances. In almost every case a shrewd Official Receiver can put his finger on something done which ought not to have been, but he could do that if he were investigating the career of a prosperous man. To start a business with a capital of half a crown is a glory to the man who succeeds; it can be made into an offence under the Bankruptcy Act if failure is the result. Struggling against the impending crash, eagerness to become rich, incompetence, inexperience, undue confidence in friends, bring about failures, no doubt, in small businesses as well as in large ones, but it is hard to define these causes as offences. In many instances the stories buried in these records could be told so as to read heroic. Above all other causes, and governing them all, is the facility with which credit can be obtained, and for this the creditor is at least as responsible as the debtor.

SURGEON-MAJOR PARKE.

Never has a more hearty and eloquent tribute been penned to a lost friend than that which H. M. Stanley has written to the *Lancet* in memory of his heroic companion in the melancholy Emin Expedition, Surgeon-Major Parke. Parke was barely 30 years of age when he joined Stanley's expedition. He was an Irishman, and a licentiate of the Royal Colleges of Surgeons and Physicians of Ireland. He had already served in the Gordon Rescue Expedition, and through a cholera epidemic at Cairo. Through the terrible march, week after week, and month after month, through the forest and jungle, Parke, who took his full share of the duties of direction, as a captain of a company, had to begin his day's medical work every evening, when the halt was called.

"No language that I can use," says Mr. Stanley, "will describe the feeling of nausea that was provoked by the stench and the sight of fifty or sixty men who lost ounces of flesh each day from the most virulent ulcers; and looking at Parke, one could not but wonder at the utter absence of any such feeling in his face. Himself depleted in body from excessive perspiration, after a march through hot, moist jungles, starving on one green banana a day, half-naked from loss of clothing and the constant wear and tear of bush-life, half-fainting from the pernicious ague, which could only be suppressed by heroic doses of quinine, and yet presenting to each and all of us a face whereon one read naught but pleasantness and benevolence. Pursuing steadily day by day, throughout a period which has no equal in my life for downright utter and extreme misery, an even temper so admirable and beautiful for its sweetness and devotion, that I can think no human being, male or female, could excel it."

In this same letter Mr. Stanley again remarks on "the medical stores which had been furnished to us, free of all cost, by Messrs. Burroughs & Wellcome." When Parke joined the expedition his first work was to examine these. He pronounced them excellent, but made out a list of some others which were telegraphed for from Aden, and were received at the Cape as the expedition rounded it on their way to the Congo.

SEEING THE FAIR AT THE PUBLIC EXPENSE.

A young Ohio druggist's clerk, Mr. R. W. Emerson Campbell, whose name is longer than his purse, has hit upon an original scheme for gaining his chief present desire—viz., that of paying a visit to the Chicago Fair. He appears to be a young man of perfect honesty, and brings his employer and six other prominent citizens of Martin's Ferry, Ohio, which is the locality he inhabits, to vouch for that. Upon the strength of these testimonials, he is scattering around an appeal to "brother druggists and drug-clerks," asking their co-operative help towards his object.

"My solicitation," he says, "is small. I ask you to give me 10c. each, and in return for this I will give you a history of my entire trip, including everything from beginning to end, and shall name it 'A Drug-clerk Seeing the World's Fair.' I am honest in what I ask, and the amount I receive will be given in the history, also the names of the contributors. I earnestly solicit your help."

It is to be hoped that if this original scheme should have the desired result it will not find extensive imitation among impecunious drug-clerks. The pharmacist's lot is not a happy one as things go, and with such new terrors added to it as circularising on Mr. Campbell's plan it would soon become past endurance.

CARBOLIC ACID AND ALCOHOL.

The *Standard* comments on the curious destruction of the delicacy of the palate which must have occurred before any one can drink carbolie acid in anything like quantity in mistake for whisky. Spirit-drinkers profess, as a rule, to be

very particular about the correct brand of their favourite tippie, and often claim that they can distinguish somebody's dew from another man's cream. Perhaps the detection can only be made when the liquid arrives in the stomach. Otherwise, it is inexplicable how men and women can gulp down 2, 3, or 4 oz. of such corrosive drinks as carbolie acid, if they are only in a stout or ginger-beer bottle, without noticing the peculiar bouquet, if we may so describe it. Another singular fact which must strike the student of suicides is the extraordinary fascination which carbolie acid seems to have for heavy drinkers as a means of self-destruction in their hours of depression. Is carbolie acid in any sense complementary to alcohol?

SEVERE.

The annual meeting of the Pharmaceutical Society of Ireland is to be held at Dublin on Monday next, at 7.30 p.m. There will be no contest for seats on the Council, as only seven nominations have been sent in. But Mr. Josiah H. Middleton, associate druggist, proposes to submit the following motion:—

That it be an instruction to the Council of our Society, in their meetings, to avoid personalities, to respect the Chair, and to conduct themselves generally in a manner worthy of educated gentlemen entrusted by the Legislature with the administration of pharmaceutical matters.

Mr. Middleton's text embodies admirable advice, which an Irish audience will certainly agree with. But the fun will probably commence with the sermon and the application. A Council which stands in need of such an admonition will be able to take up the challenge vigorously enough if they are disposed to accept the rebuke seriously, and in that case Mr. Middleton will require a lot of self-control to himself accept the advice which he is anxious to impress on others.

"NEXT WEEK."

We resume this week the section of notices of meetings to be held in connection with pharmacy and allied sciences. We shall be glad if secretaries of societies will give us prompt information of such matters, informing us in every case where the meeting is to be held, at what time, and the nature of the business. Notices received after Thursday morning cannot be inserted in the issue of that week, and we prefer to have such matter in hand on Wednesdays. Dr. Lauder Brunton will on Monday afternoon address the students of the School of Pharmacy, and from the popularity and acumen of the learned pharmacologist, we may expect a big audience, and something worth listening to. On Thursday evening Mr. E. F. Harrison will give an inaugural address at the Chemists' Assistants' Association, Great Russell Street. Assistants always try to show their strength and loyalty to their president on these occasions; but that is no reason why many seniors should not show their interest in the juniors by attending also. The programme for the first quarter's meetings of the Association is as follows:—

- October 5.—The President's inaugural address.
- „ 12.—Musical and social evening.
- „ 19.—Paper: "A Pharmacist's Holiday." W. Lloyd Williams, F.L.C.
- „ 26.—Paper: "The Examination of Potable Waters." E. J. Parry, B.Sc.
- November 2.—Discussion: "How can we check unjust trade?" C. E. Pickering.
- „ 9.—Paper: "Laboratory Notes." A. Gunn.
- „ 16.—Annual *conversations*.
- „ 23.—Paper: "Notes on the Chemical and Microscopical Examination of Urine, Sputum, &c." E. J. Millard, F.C.S.
- „ 30.—Short papers by members.
- December 7.—Paper: "The Pharmacist as a Man of Science." C. M. Luxmoore, B.Sc., F.C.S.
- „ 14.—Paper: "Pharmaceutical Training: as it is and as it should be." H. A. D. Jowett, F.C.S.
- 21.—Musical and social evening.

THE KAY'S ESSENCE TRIAL.

The *British Medical Journal* concludes a comment on the proceedings taken by the Pharmaceutical Society of Ireland in respect to the sale of Kay's Essence by an unqualified vendor, with the following unkind reference to the alleged apathy of the Pharmaceutical Society:—

We cannot refrain from expressing surprise (says the *B. M. J.*) that no action has been taken by the Pharmaceutical Society of Great Britain in regard to the open defiance of its powers under the Act to which we called attention in the *British Medical Journal* of March 25. It is the duty of that Society to enforce the provisions of the Act in the interests of the public, and as regards the qualified persons it represents it is its privilege to be permitted to enforce those provisions. For both reasons it might be expected that the Society should more actively exercise its important functions in regulating the trade in poisons.

It would be interesting to know whether this criticism is justifiable. Why does not the Pharmaceutical Society give some sort of a report indicating what proceedings have been taken?

THE OLD ORDER CHANGETH.

By JOSEPH INCE.

AT last Godfrey's old house, which stood for nearly two centuries in Covent Garden, has yielded to the law of change, and, having passed into the builder's hands, has ceased to be pointed out to the antiquarian as a relic of primeval pharmacy. It was situated in 31 Southampton Street, Strand, and was considered an elegant structure in its day. The frontage had its admirers, though perhaps it was chiefly remarkable for having the then largest specimen of plate-glass windows. They excited the curiosity of Brande, who carefully examined them from time to time, and was of opinion that owing to their size they must infallibly turn pink. The expected coloration did not take place, nor was it likely that it should when we compare them with the elaborate plate-glass frontages which adorn modern establishments.

Godfrey, or rather his master, the Hon. Robert Boyle reversed the order of things. The Laboratory in Maiden Lane, just round the corner, was established first. It has been described so often that its history need not be repeated here.

Godfrey, it may be recollected, was originally brought by Boyle from Hamburg as his assistant to work out the manufacturing chemistry of Phosphorus. His surname was Hancchwitz, which, not being understood of the common people, was dropped, and Ambrose Godfrey, the Christian name, was retained.

A reference to Boyle's Life and Works will show that many other chemical speculations engaged the attention of the pair, and, in consequence, furnaces were built and still erected; and so, by degrees, and also from necessity, the Laboratory arose. Lofty, long, irregular, with extensive cellars and underground vaults for the storage of ammonia, to which were added, later on, tincture store-rooms, drying-rooms (not cupboards) and later still, a chamber with arranged light for the final process in the preparation of carmine. Space was not limited at this date, in proof of which it may be stated that, to the very last, a long glass-roofed loft, which would have charmed the manufacturer of to-day, was tenanted by rows of unused empty bottles. Leading out from the Laboratory was a yard, in the centre of which stood a plane-tree, which, despite the smoke of London and the surrounding houses, flourished in full green vigour, and under which were annually placed the wooden trestles supporting

the 12-gallon carboys which held the solution for the manufacture of the Trisnitate of Bismuth.

After a week's washing the supernatant liquid was drawn off and the non-acid precipitated Bismuth was transferred to wide cane sieves, again placed on the trestles, and finally, being lightly covered over with linen cloths, was dried *sub alico*, which being interpreted means in the open air.

It soon occurred to Godfrey that business-pharmacy might be grafted on chemical research, and thus it came to pass that on his own account he founded the Historic House at 31 Southampton Street, the date of the establishment being 1680.

As the Laboratory was the first to be erected, so it was the first to disappear—it was pulled down thirty years ago, and was converted into the Roman Catholic church which now stands on identically the same site. The walls of the new ecclesiastical building closely follow the old structural lines: the high altar replaces the Carmine Room, while the descending steps at the entrance, right and left, occupy the ground where the phosphorus and charcoal furnaces once stood.

Innumerable pleasant recollections crowd into the writer's mind whenever the subject of the ancient Boyle-Godfrey pharmacy is revived, and he is always afraid of entering into details which may be of personal rather than of public interest; but as the material fabric of the old house is now passing away, a brief retrospect may be accepted.

Ambrose Godfrey was the founder: to him succeeded his son, who bore the same name, to the perplexity of the biographer. It is a most unwise thing to label your offspring thus: if you are a distinguished man your son's possible reputation is swamped; if otherwise, the case is worse.

This second Godfrey was the author of the "Compleat History of Chemistry," a huge volume written in the discursive style which marked that period. To the first Godfrey we attribute phosphorus; to the second, improvement in the manufacture of ammonia and sundry ammoniacal preparations, notably the spirit of sal volatile.

Both left behind them multitudinous formulæ, altered and re-altered, excellent illustrations of polypharmacy, but now, with few exceptions, obsolete.

The next link in the chain, worthy of mention, was Charles Gomond Cooke, who entered as an assistant, but who, with rare business tact, aided by a certain skill in perfecting galenical preparations, became sole proprietor, and subsequently confided the pharmaceutical direction of affairs to my father, Mr. William Ince.

On Mr. Cooke's death the entire concern was bequeathed to his only child and daughter, the management remaining as before; and, to complete the record, the business came ultimately into the possession of her eldest son.

I imagine most of us are subject to disenchantment. For years, while I was myself an assistant in Southampton Street, I entertained a firm impression that the pharmacy was large—I should even have said extensive; yet I confess that when the business was transplanted to the West-end, and the building was turned into offices and shop, and when, in the spirit of "Yarrow revisited," I strayed into the well-known premises, I thought them *so* small, and wondered how so much could have been effected in so narrow a space. There was room enough and to spare had a shade of modern adaptation not been considered heresy, for the counting-house was in the possession of a desk of formidable proportions, while immediately in the rear was a room the size of which would have satisfied many a rising pharmacist, and often does, but which by immemorial custom was tenanted by a series of those deep cupboards in which our ancestors used to conceal their goods.

There was space, enough, however, for a splendid retail, and reliance may be placed on the statement that in the full

tide of the prosperity of the firm, carriages with waiting customers have been known to extend from the door of the pharmacy down to the Strand entrance of the Adelphi Theatre. Once, in my own time, during the great cholera visitation, the trade-tide rose to a sensational high level which marked too surely the virulence of the scourge. It will wound no one's feelings now to give a minor illustration of the spirit of conservatism which then prevailed, itself characteristic of the time and place. Once a week it fell to my lot as junior (and the task was not unwillingly performed) to replenish the dispensing-bottles from the store. To my despair I found many preparations, ranging in quantity from 4 to 10 gallons, with labels so defective that they were illegible, and some—specially those contained in the larger tanks and cisterns—which had never had the honour of such adornment. The old laboratory-man recognised them from long habit, and could be trusted to find them in the dark. It was irksome to be continually under such direction; so, prompted by this feeling and a positive sense of danger, I ventured to disregard traditional usage and engaged a sign-painter to remove such a plain chance of accident. The old porter growled and muttered, and his expressions were not select. In time the transaction was forgotten, only to be recalled by the casual remark that such foolishness was what might be expected from a student at the Square. This was trouble from without; within there was another, which was a dire grievance to the junior assistants. The pharmacy contained an abnormal quantity of little drawers, with no alphabetical arrangement. Only a long-established house could show such a drug-collection, or rather accumulation of ancient and modern remedies. It will scarcely be credited that this want of system, as inconvenient as unbusinesslike, was quietly acquiesced in for at least a century, until one night when the juniors were left alone, and, assisted by experienced workmen, they reorganised the whole plan. Now a fair opportunity presents itself to write an essay on the force of habit.

Let me turn to the bright side of the assistant's life in Covent Garden, without mention of which the characteristic features of the ancient pharmacy would be inadequately represented.

The house became the rendezvous of literary circles, of members of the bar and of the stage; thither resorted the celebrities of the Savage Club, then in unostentatious quarters in Maiden Lane; barristers from the Temple and Lincoln's Inn, not forgetting the three companies who made the fortune of the Lyceum, Adelphi, and Strand Theatres. A sort of friendship sprang up between the customer and the dispenser—agreeable to both, and by no means evanescent. This was not always an unmixed advantage. True it is that we were practically on the free list, and that I myself saw gratuitously most of the grand operas at Covent Garden sung by Mario and Grisi; but the lesser stars—say, one of the bewitching purchasers of carmine—would have a benefit, and expect each of us to take nothing under stalls. We were none of us endowed with too much of this world's goods, nor, to my knowledge, have any of the Rothschild family served behind the counter, hence embarrassment ensued; and my father, who never was inside a theatre in his life, except that of the Royal Institution, was called upon to arbitrate. The episode began to pall, and, in consequence, there was a martial edict that orders thenceforward should be respectfully declined. On the principle that "the unexpected always happens," conversation seemed to turn on the subject least in keeping with the speaker's known pursuits—Keeley invariably discoursed on prudent investments and the funds; Charles Mathews never talked about the boards; a noble lord connected with the turf spoke of drugs and their application; ladies mostly did the same; and the clergy were unanimous in praise of Jenny Lind.

Under such circumstances business became a pleasant occupation, and, taking one consideration with another, pure pharmacy proved neither a dreary desert nor an unfortunate speculation.

Farewell, Ambrose Godfrey, erstwhile one of the sturdiest pioneers of the union between chemistry and trade. That was the secret of his success, as it remains the secret of to-day.

Some years back the business to which Godfrey gave his name was transferred bodily to Hyde Park Corner, following in the wake of a branch establishment in Conduit Street, which had been opened by Charles Gomond Cooke during his lifetime.

The branch still flourishes under the proprietorship of our excellent member of Council, Mr. Thomas Greenish, who, once himself a Godfrey assistant, has become the sole successor to, and representative of, the historic house. As we write, the architect and builder are at work on the old premises, and soon the very structure over which the phoenix watched so long will disappear and be numbered with the past.

THE JACOB BELL SCHOLARSHIPS.

By A BELL SCHOLAR.

IN view of the value of the Jacob Bell scholarships offered annually by the Pharmaceutical Society, it is surprising that so comparatively few candidates present themselves. Many students, it may be, are deterred solely because they do not know "the right way to go about it." In the Educational Number of this journal the value of these scholarships was indicated (see page 429). Roughly, the total value of a scholarship is over 70*l*. Then the fact of being a Bell Scholar is to a certain extent a "Hall-mark"; and while there is no reason to think that the scholar will receive more personal attention from the professors than is given to any other diligent student, yet in a large number of cases the winning of the "Bell" has been an introduction to a successful career. A glance at the list of past scholars will confirm this statement.

Except for the languages, all the study done in preparation for the examination is so much towards the Minor, and will be found of immense value to the student even if he fails in the scholarship examination. One other point should be noted: every student has the opportunity of entering a second time if he fails at his first trial, and many of the most successful men have won at their second attempt. A polite letter to one of the examiners for the year will usually elicit a reply giving to the unsuccessful candidate at least his *position* on the list, and perhaps a word of advice or encouragement to "try again."

Taking the subjects *seriatim*. *English* should give no trouble to anyone who passed well at his Preliminary or equivalent examination; besides the grammar—for which Morris's "Small Primer" is more than sufficient—the main points to be insisted on are correct spelling and punctuation, and neat writing.

For French, I believe candidates rely mainly on what they learned at school, backed, perhaps, by a little French reading. No questions in grammar are asked, and other questions are easy; I should say that the standard is not a very high one.* The French into English translation is usually simple enough, the English into French being more trying to the average student; but both extracts are generally short. The same remarks apply to *German*.

Latin is usually the great bugbear, and probably deters many an otherwise promising student from entering, the three books of the "Æneid" being undoubtedly a long grind. Personally, I found it a good plan to write out in full my translation of the text (the editions of White, Walpole, or of the University Correspondence College are excellent and contain useful notes, together with derivations of words,

which are sometimes asked for); afterwards, when the construction had been fully grasped, read a good translation, comparing it with the first; the "Globe" translation of Virgil is perhaps the best. But it is a bad system to rely on even the best of "cribs" when in difficulties; a knotty point thrashed out by oneself is far more likely to be remembered. Grammatical questions other than those arising from the text are not often asked, but pharmaceutical Latin is within the purview of the syllabus; for this, Ince's "Latin Grammar of Pharmacy," and, if available, an old Latin edition of the Pharm. Londinensis will be found sufficient to supplement the somewhat meagre Latin of the pharmacy.

The *Arithmetic* should not frighten any Board School boy, still less a "student of the Society"; constant practice is perhaps the only remedy for weakness in this direction. The metric system should be thoroughly mastered, especially in its relation to British weights and measures.

Chemistry.—For the pharmaceutical subjects the schedule is vague, "Chemistry, Botany, and Pharmacy" being all that is mentioned therein to guide the intending candidate. But the scope of the questions may be ascertained from the calendars of past years, which can be obtained from the Society's library; and the new Minor schedules, though in advance of the requirements of the Bell, serve as useful guides; indeed, he is a wise man who endeavours to extend his knowledge so as to cover the Minor subjects. If the student has time and can devote his winter evenings for a couple of years to it, undoubtedly Attfield's "Chemistry" is as good a handbook as any from which to study chemistry from the pharmaceutical standpoint; for it must be taken as an axiom that no amount of reading only (although the examination is a written one) will suffice to give the mind that training which lies at the root of all chemical knowledge—without practical work no student ought to be able to obtain a good place. Even without having access to a properly organised laboratory or class of chemistry, the student who is determined to surmount all obstacles can do a wonderful amount of good work in the back shop after hours with a few shillings' worth of simple apparatus. In this connection I must on no account omit to mention the "Corner for Students" in THE CHEMIST AND DRUGGIST; personally I owe much to it, and the careful work and manipulative skill required in the analysis of the small samples of powders sent is a splendid training in analytical chemistry. The question of obtaining a top place in the monthly competition is quite a secondary consideration. For those who have not the time for Attfield's course, Sexton's and Valentin's "Qualitative Analysis" are useful books for practical work, while for theoretical, Watts's and Roscoe's text-books are excellent. Very useful, too, is Woodward's "Arithmetical Chemistry" for that too often neglected department of the science in which candidates so frequently come to grief.

Botany.—It is in this subject the country student has such a "pull" over his London brother. The study of botany ought to be a natural hobby with all pharmaceutical students within easy range of the green fields. The first year of apprenticeship may well be spent in acquiring a knowledge of the local flora; at this time, too, the general morphology of the plant should be studied, using as a guide either Holmes's "Botanical Note-book" or Bentley's "Guide to Structural and Physiological Botany"—this latter covering all the requirements of the examination. Then, having got a good grounding in the subject, all students who have the leisure should enter for the Herbarium Prize, the present conditions of which should not deter anyone from competing, the number of specimens being limited to 150. The knowledge of "field botany"—so acquired will be found more than sufficient for the systematic portion of the subject, and the detailed examination of the specimens will teach all the morphology needful. If access can be had to a microscope so much the better, and towards the close of the apprenticeship a practical acquaintance with the appearance of the various tissues under the microscope will be worth far more than any amount of mere book-reading. Edmunds's "Botany" may also be mentioned as a good text-book.

Pharmacy.—The B.P. is the foundation on which all study must be based; in fact, the more of the pharmaceutical portion of that work that is known by heart—with a due appreciation of the *rationale* of the various processes described—the better off will the candidate be. It is a pity

* The questions are now set by a College of Preceptors' man. Our contributor's experience is of a pharmaceutical examiner's French.

that a rather fuller syllabus should not preclude the necessity for so much cram-work; but here, again, the Minor schedule will be found a safe guide, and the student would do well not to fall far behind the standard indicated therein. Wills's "Elements of Pharmacy" and Proctor's "Lectures on Practical Pharmacy" are good books to read, and Squire's "Companion" should be an adjunct to the B.P. itself. Much can be done to facilitate work by classifying the various preparations, and if the student constructs his own tables himself, so much the more valuable they become. But most of all should be learned by a practical acquaintance with the *modus operandi* of the preparations themselves, and apprentices should make a point of inducing their masters (where feasible) to allow them to make as many galenicals as possible; too often nowadays the custom is to order all "preparations" from the wholesale house—to the great loss of the apprentice.

In all the foregoing remarks it has been assumed that the student has no opportunities of attending any classes or courses of instruction in the various subjects: too often in our smaller country towns such are not available. A main point to be gained is practice in writing out answers to set papers in a definite stated time and without reference to books. Too often a man who is really well up in his work finds himself in a hopelessly nervous condition when he gets to the examination-room and has to commit his knowledge to paper in clear and concise language.

AUSTRALASIAN NEWS.

THE subjoined notes are based upon information contained in the August issue of the *Chemist and Druggist of Australasia*:-

NEW ZEALAND PLATINUM.—It is stated that a quantity of heavy greyish sand has been discovered at Boatman's, near Greymouth, N.Z., which is said to contain platinum at the rate of 46 oz. to the ton. If this turns out to be a fair average, the find should be a very profitable one.

DRUGS FOR NEW GUINEA.—His Honour Sir Wm. Macgregor, M.D., K.C.M.G., Administrator of British New Guinea, has lately been in Brisbane on official business, and, as is his wont, found time to call upon a well-known manufacturing firm of chemists and purchase his pharmaceutical requisites. It has been suggested to Sir William that he would be doing a great service to pharmacy if he would collect an herbarium of New Guinea medicinal plants for the Queensland College of Pharmacy.

A TRAVELLER'S EXPENSES.—A matter of much interest to commercial travellers and their employers came before the Wellington Magistrate recently, when the New Zealand Drug Company sued a traveller named Horrax for the return of 7l. 10s. paid to him for travelling-expenses. Horrax had been staying at the house of a friend, but sent in the account as if he had incurred it as an ordinary hotel-bill, and in court urged that it was customary for commercial travellers to profit by any saving they might effect in this way. This the plaintiffs denied. The Magistrate gave judgment for the plaintiffs, ordering each party to pay their own costs.

THE AUSTRALIAN ACACIA-GUM TRADE.—A company for the preparation and sale of Australian acacia-gums, which was formed in Victoria at the beginning of 1891, appears to be in a very flourishing condition. The gum is collected by farmers, from whom it is purchased at varying prices, from 2d. a pound upwards according to quality; is then purified by a specially-patented process, of which Mr. A. N. Pearson, the Government agricultural chemist, was one of the inventors. There is a large sale for it among the stationers in Victoria, and it is alleged that it is superior to the best imported mucilage at about the same cost. The next step in the development of the industry will be to push its use for the manufacture of confectionery.

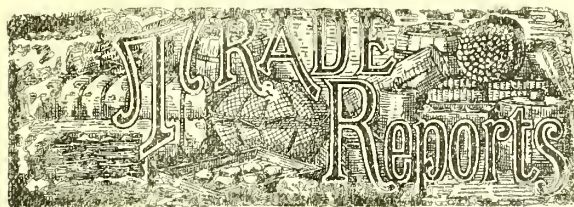
A LOSS TO QUEENSLAND PHARMACY.—On July 1, pharmacy in Queensland suffered a great loss by the death of Dr. J. H. Griffin, who was killed through being thrown from his horse when jumping a fence whilst hunting. Dr. Griffin had been lecturer in pharmacy and materia medica at the Brisbane College of Pharmacy for two years, during which time he spared neither time nor expense in making his

students proficient. Dr. Griffin was a young man of 30, the son of a broker in Dublin, and had been resident in Brisbane for about five years. His funeral was largely attended, the *cortège* being over a mile in length. At the meeting of the Council of the Pharmaceutical Society following his death, a resolution conveying sympathy with the deceased gentleman's friends was carried.

AUSTRALIAN NATIVE GUMS.—According to a Queensland paper, Mr. T. G. Macknight, F.L.S., is endeavouring to organise the collection of gums from various Queensland trees for commercial purposes. He states that the gums from the following trees are of commercial value:—Queensland kauri pine, brigalow, gidya, grass-tree, cypress-pine, bloodwood, acacia, wattle, fig, Norfolk Island pine, and the damar or kauri pine of New Caledonia, New Guinea, New Hebrides, and Fiji. The time to tap the trees is when the sap begins to rise at budding and flowering season, and the gum should be collected soon after the fruit has commenced to ripen and the sun has made the exudations firmer and easier to get off, but, of course, before the autumn rains. The tree should be wounded on one side one year and the opposite side the next year, and then on the left and right sides in succeeding seasons; the first side will then be ready again for tapping. In some cases the gum on exuding is rather liquid, and apt to run down to the ground. To keep it clean, a small piece of wood should be put into the trunk at the lower end of the cut, to direct the gum clear of the tree, so that it will fall into a kerosene tin, shell, or any other receptacle. Mr. Macknight states that gum—new, clean, free from bark and dirt—ranges in value from 20s. to 50s. per cwt., delivered in Brisbane. The fresher it is the better. Gum found in cavities in the woody part of trees is inferior.

PHARMACEUTICAL LEGISLATION IN NEW ZEALAND.—New Zealand pharmacy is much perturbed by the two-legislative measures introduced into the Legislative Council by the Hon. Sir P. A. Buckley, and of which a sketch has already been given in our journal—viz., the Poisons Importation and Carriage Bill, which is intended to secure the proper marking of all poisonous substances and their careful packing during transportation, and the Sale of Poisons Act Amendment Bill. The principal features of the latter are the provision that "no sale of poison in the first part of the schedule must be made to anyone, known or unknown, except in the presence of two adult witnesses known to the seller." The Bill does not provide that the buyer shall be known to the witnesses. Again, "no apprentice or servant who is not himself registered under the Poisons Act shall sell any poison on behalf of a duly registered person." It is probably an oversight that the witnesses are not required to know both buyer and seller, but if the new provisions are to be properly enforced (which the Act of 1871 never has been) it will be found to cause a considerable hindrance to the course of trade. The provision of the 1871 Act that the master shall be responsible for sales made by his apprentices or assistants has been omitted in the new measure. The Poisons Importation Bill is specially designed to prevent such accidents as have frequently occurred in New Zealand through the careless handling of arsenic; but, not content with regulating the carriage of that poison, it subjects the whole of the drugs named in the first schedule of the Poisons Bill to the same treatment. Pharmaceutical opinion in the colony appears to be divided upon the subject, but the general feeling seems to be that the whole question should be handed over to the Pharmacy Board. This body is displaying unusual activity at present, five meetings having been held between June 20 and July 7, while the chemists have also held numerous conferences on the proposed legislation.

ADULTERATION OF COCOA-NUT OIL.—The cocoa-nut oil industry of Trinidad appears to be in imminent danger of irreparable injury through the practice of adulteration of the oil with a substance which is largely imported under the commercial name of "refined white cotton-seed" oil, which is admitted duty-free. That this oil is not used for local consumption is notorious, and is, moreover, proved by the fact that of 148 different shops in which it was asked for, only seven were able to supply it. Yet the imports were 9,000 gallons in 1892 and 7,000 gallons during the first half of the present year.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., September 28.

ACID (CITRIC).—Steady at 1s. 6½d. per lb. on the spot. Concentrated juice may be had on the spot at 18l.; and for forward delivery at 15l. 15s., f.o.b., per ton.

ACID (TARTARIC).—The market continues to ease off; foreign powder and crystals may be had at 10¾d. per lb.; English acid is worth from 11d. to 11½d. per lb., according to quality and position.

ACONITE.—Sixteen bags mouldy Japanese root sold at 15s. per cwt., a price which marks a fresh reduction in value.

ALOES.—Cape aloes was in fairly liberal supply, 68 boxes being offered, including some of unusually good quality; the whole of this sold at steady rates, though the finest boxes were comparatively cheap. Fine bright hard sold at 24s.; medium, partly gritty, to good hard at 22s. 6d. to 23s. 6d.; rather drossy to ordinary common from 21s. down to 18s. per cwt. A fresh arrival of 13 cases good bright, but rather soft hepatic Zanzibar aloes sold, with good competition, at 75s. to 77s. 6d. per cwt. This kind has been scarce lately. Curacao aloes, of which some new arrivals (amounting to 562 boxes) were placed in sale, was also well inquired for, 522 boxes selling at a decided advance on the good qualities, which are scarce, good brown livery realising 52s. 6d.; bright ditto, slightly capey, 32s. to 34s.; dark and capey, 22s. to 27s.; ordinary, from 18s. down to 13s. 6d. per cwt. Arrivals of Curacao aloes have been taking place in quantities which render any early improvement in the market improbable.

ANTIMONY.—Crude Japanese antimony sells at 20l. per ton in a small way, but there is next to no demand. At auction 10 cases crude Japan were bought in at 20s. per cwt.

ARAROA.—A parcel of 23 cases good bright which was recently offered was again placed in sale, and bought in at 2s. 6d. to 3s. 6d. per lb. There are buyers, but they are hoping that the holder will soon become more reasonable, of which there is no prospect at present.

ARECA.—There has been a plentiful supply of these nuts, and some of the holders probably despairing of getting better prices in the near future sold their lots for what they would fetch, which was only from 11s. to 14s. for good, and from 8s. 9d. to 9s. 6d. for damaged quality. This is a decline of about 3s. per cwt. Other parcels are limited at 17s. to 18s. per cwt.

BALSAM COPAIBA.—Out of a new arrival of 22 packages from Bahia 17 sold at 1s. 4d. to 1s. 5d. per lb. for thick brown and dull grey; very dark brown realised 1s. 1d. per lb.

BALSAM TOLU is very sluggish, and holders would probably be prepared to make concessions for the sake of business. It is reported to be rather firmer in America, but so far as London is concerned the article remains neglected. Two lots were shown to-day, and both bought in at 1s. 2d. to 1s. 3d. per lb.

BENZOIN.—Neglected. Of Sumatra gum several parcels were sold; all these are mostly held above valuation, and little business was transacted at to-day's auctions. Of Penang

gum 6 cases seconds old fracture, false-packed tops and bottoms, fair almonds, sold at 95s., and for 10 cases fair Palembang seconds, 37s. 6d. per cwt. was paid. Siam gum is offering sparingly, and held for very high prices.

BLEACHING-POWDER is now quoted at 9l. 10s. to 9l. 15s. in London; 8l. 5s. for soft wood on rails at Liverpool, and 8l. 10s. for f.o.b.; and 8l. 5s. to 8l. 15s., f.o.b. Tyne.

BOLDO.—The bale of fair grey leaves which has been shown repeatedly may be had at 7½d. per lb.; there was no buyer for it to-day.

BUCHU.—There is no quotable change; but the tendency of the article is slightly easier. The supply is plentiful, and of 41 bales shown to-day, 19 sold as follows:—Good green leaves, 10d.; ditto round, 5d.; rather yellow round leaves, 4½d. per lb.

CALABAR BEANS.—Two bags, of a total weight of 150 lbs., sold to-day at 1¼d. per lb.

CAMPHOR (CRUDE).—The nominal spot-value of Japan camphor is 150s. to 152s. 6d. per cwt., and of China, 127s. 6d. per cwt. The arrivals of Formosa camphor in the Chinese mainland ports remain very heavy; in the fortnight between August 8 and 22 they amounted to 1,200 piculs. At to-day's auctions 3 cases sea-damaged China camphor, salvage from the Radnorshire, sold at 95s. per cwt. The current quotation of Japan camphor for shipment this month is 135s. per cwt., c.i.f. terms.

CANNABIS INDICA is very sluggish of sale. For 7 Robbins greyish tops 4d. per lb. was obtained in sale to-day. Ninety other packages remained unsold.

CARDAMOMS.—The following figures refer to the exports from Ceylon between January 1 and September 4:—1893, 244,436 lbs.; 1892, 249,885 lbs.; 1891, 203,092 lbs.; 1890, 227,395 lbs. At to-day's auctions the offerings of cardamoms were very moderate—viz., about 76 cases, of which 43 sold at full prices, good Mysore fruit being from 2d. to 3d. per lb. dearer. The following prices were paid:—Mysore medium to bold long and round fine pale, 2s. 9d. to 2s. 11d.; small to medium pale good round, 2s. 4d. to 2s. 5d.; smaller ditto, 2s. 2d. to 2s. 3d.; medium long good yellow, 2s. 1d.; smaller size, 1s. 6d.; small round pale, 1s. 8d. to 1s. 9d.; brown split to pale ditto, 1s. 6d. to 1s. 9d. Ceylon-Malabar medium brownish long and round mixed, 1s. 10d. per lb.

CASCARA SAGRADA has been in strong demand privately lately, and a good business has been done at rising prices on the spot and for delivery. Thirty bags old, thick, quilly bark which have been repeatedly offered were bought in at 40s. per cwt. to-day.

CASCARILLA is scarce at present. Four casks sold at 20s. per cwt. to-day.

CASSIA LIGNEA has been in demand, 1,500 boxes being reported sold to-day at 30s. to 31s. per cwt. for fair quality.

CAUSTIC SODA.—Scarce and dearer: 70-per-cent. spot is held for 11l., 60-per-cent. for 10l.; for 1894 70-per-cent. offers at 8l. 15s. per ton. In Liverpool 70-per-cent. is nominal at 10l. 10s. per ton, but practically there are no quotations. On the Tyne the prices are 12l. for 76-77-per-cent., and 10l. 15s. for 70-per-cent.

CHILLIES are dull of sale, medium dull stalky Zanzibar realising 32s. 6d. to 33s. 6d. per cwt.

CHLORATE OF POTASH is quiet at 8¼d. per lb. on the spot, 8½d. for October, 8¾d. for November-December, 7½d. for the first, and 7¼d. per lb. for the last six months of 1894.

CHIRETTA.—For 5 bales offered to-day a bid of 5d. per lb. was refused.

CINCHONA.—The Ceylon exports between January 1 and September 4 have been:—1893, 2,867,214 lbs.; 1892, 4,471,895 lbs.; 1891, 3,698,207 lbs.; 1890, 6,003,165 lbs. It is noteworthy that whereas in the period in question of 1892-460,897 lbs. of cinchona were shipped directly from Ceylon to continental ports for the use of German quinine-makers, only 72,233 lbs. have been so forwarded this year. On the other hand, the United States, to which no bark was shipped directly in the first eight months of 1892, received 167,393 lbs. this season. The shipments from Java in the month of August have been large—namely, 692,000 Amsterdam lbs. ¹

was believed that the sales in London next week would include a parcel of about 150 bales East Indian bark imported ten or eleven years ago, but these apparently will not be offered on this occasion. Of South American barks 38 serons *Huanoco* were shown to-day; they sold at good prices—namely, 1s. to 1s. 3d. for good brown silvery quill, and from 6d. down to 2½d. for damages; 22 serons of *Lora* character realised 1s. 6d. for sound, and from 1s. 3d. to 1s. 5d. for damaged bark; 13 bales *Guayaquil* were taken out. Of red bark one 100-lb case was also bought in at 10s. per lb., it was in very small to medium chips of good colour.

CIVET.—There is stated to be a continued steady inquiry for this article, of which the available supply is not large. For fine civet 11s. per oz. is wanted.

CLOVES.—There has been a good deal of life in the Zanzibar clove-market during the last few days, for delivery as well as on the spot, although principally on the first-mentioned terms. For spot cloves, fair quality, 2½d. per lb. has been paid. At auction *Zanzibar* cloves were slightly easier again, 695 bales selling without reserve at 2½d. for ordinary dull up to 3½d. per lb. for fine quality.

COCA.—Four bags dark broken dull Ceylon leaves are held or 5d. per lb. To-day the owners refused 4½d. per lb. for them.

COCAINE.—A 10-lb. lot of crude cocaine, said to test 81 per cent. of crystallisable cocaine, was shown to-day. It is held for 9s. 6d. per oz.

CROTON-SEED.—Seven bags ordinary mixed seed from Ceylon realised 18s. 6d. per cwt. to-day.

CUBEBS.—The London market remains neglected and 13 bags which were shown to-day were all bought in at 75s. for rather dusty blue and grey mixed, slightly stalky berries. It is said that this quality is selling in a small way at 70s. per cwt. privately. The stocks in London appear to be in a few hands, and at least one important holder will not sell below 80s. per cwt. it is said. The stock of cubebs in Amsterdam, including that belonging to speculators as well as to importers, is about 1,400 bales. The arrivals have not been very heavy lately, but neither is there any demand whatever. The nominal quotations are:—Cultivated, 67s. 6d.; bold berries, 50s.; small berries, 34s. per cwt., taken in Amsterdam.

DRAGONS' BLOOD is firmly held, and for the 2 cases out of a total of 12 of Zanzibar gum shown to-day an advance of about 10s. per cwt. was obtained, fine fiery hard saucers selling at 10½, soft and seedy ditto, of good colour, at 8½. 10s. per cwt. For 2 packages dusty Zanzibar drop 65s. per cwt was bid.

ELATERIUM.—A parcel of 270 oz., newly imported from Malta, was offered to-day, but it was bought in without any reference as to the price.

ERGOT OF RYE has been breaking down in price privately for some time, and the knowledge that 10 cases *Spanish* ergot of good bold grey quality would be offered to-day without reserve kept the trade in suspense; these 10 bags realised only from 1s. 1d. to 1s. 1½d. per lb., being a decline of 2½d. to 3d. over the last nominal price; but for another lot a bid of 1s. was refused, and various parcels are held at from 1s. 7d. for good new to 1s. 4d. for very dusty ditto. Altogether, 77 bags of Spanish ergot were offered at auction.

FENUGREEK-SEED.—*West Indian* fenugreek-seed is offering cheaply, a parcel of 60 bags being bought in at 9s. per cwt. It would probably be obtainable at 8s. 3d. or 8s. 6d. per cwt.

GALANGAL.—It is reported that the stocks are becoming very small here; for 40 bags of fair quality, sea-damaged, and repacked 15s. per cwt. was offered to-day, but 17s. per cwt. is the price.

GALLS.—*China* galls continue to sell in a small way at 52s. 6d. to 53s. per cwt. for fair quality. There has been a somewhat better demand for *Turkish* galls lately, with sales of fine blue Bassorah up to 58s. per cwt., and green at 49s. per cwt.

GAMBOGE brings good prices; 4 cases newly imported old to-day at 12½ per cwt. for fairly bright, partly broker, and slightly damp pipe.

GENTIAN.—For 15 bales root of fair quality a bid of 14s. 6d. per cwt. was rejected.

GINGER.—*Cochin* has been in brisk demand lately, and closes at decidedly firmer prices: B cut at 80s.; C cut at 75s.; brown rough at 69s.; washed ditto at various prices ranging up to 63s.; cuttings at 55s. to 56s. per cwt. *Jamaica* ginger was in small supply at this week's auctions, the whole being bought in at nominal rates. The London stock is now mainly in the hands of one firm, and as the crop has long been received (April–June being the chief importing season), there seems to be little prospect of lower rates. Good middling has been sold at 80s.; low middling at 74s. per cwt. *Japan* ginger is dearer, with sales of fair rough limed at 50s. 6d. per cwt.

GLUCOSE is firmer, at from 10s. 6d. to 12s. 6d. per cwt. for American brands; syrups are also firmer, and range from 6s. to 11s.

GUARANA is now held for 3s. 6d. per lb.

GUM ACACIA.—Several sales were made to-day at rather low prices, twenty bales *Soudan* sorts, good soft slightly ambery, bringing 45s. per cwt., subject to approval. Of picked *Alexandrian* gum, 4 cases sold at 5½. 2s. 6d. to 5½. 7s. 6d. for good pea size to medium drop, and 95s. for rather small and grey ditto. Seventeen serons rather dusty white *Mogadore* brought 51s. per cwt. In other kinds of acacia gum there has been very little business since last week; *Fahmi* and *Gebzirah* kinds are not offering at present. *Talka* is quoted at 30s. to 33s. per cwt., according to quality. Ordinary to good *Persian* sorts (so-called "insoluble" gum) are selling at 15s. to 20s. per cwt.

GUM ELEMI.—Twenty-two cases were shown to-day, and all bought in; for rather dirty grey to fair mixed a bid of 23s. was refused.

GUM EUPHORBIIUM.—A parcel of 12 sacks very dusty and woody, containing but little drop, is held, it is said, for 50s. per cwt.; half of that price was offered and rejected.

GUM GALBANUM.—A parcel of 28 bales, partly very dirty, soft and woody, partly good gum, realised from 4½d. up to 9½d. per lb.

GUM GUIACUM.—Fine gum was not offered to-day, but for a small parcel of common hard earthy block, mixed with a few layers of gum, a bid of 4½d. per lb. was refused. The owner wants 5d. per lb. Good quality is rather scarce and wanted, but common kinds are plentiful and low in price.

GUM KINO.—The nominal value quoted privately has lately been from 19½. to 20½. per cwt., but scarcely anything of this article has been offered for weeks. One case, returned from America, which has been repeatedly offered was shown to-day—it was again bought in at 20½. per cwt.

GUM TRAGACANTH.—At to-morrow's (Friday) periodical auctions, 1,250 packages gum tragacanth will be offered for sale.

HONEY.—*Jamaica* honey remains steady: 28 packages liquid brown sold at 28s. for good, and from 25s. down to 21s. per cwt. For 10 cases good bright liquid *Californian* honey 40s. per cwt. was paid, and 37 barrels rather dull liquid grey *San Domingan* realised only 19s. to 19s. 6d. per cwt.

IPECACUANHA.—Of *Brazilian* root 78 packages were offered to-day, 26 of which sold at a decline of 2d. to 3d. per lb. as compared with the last auctions, but it should be mentioned that there was not one bale of real good quality; sound fair annulated to thin and woody brought from 5s. 6d. down to 4s. 9d.; and first-class damaged from 5s. to 4s. 9d. per lb. Of *Cartagena* root 25 bales were offered, of which only 3 sold at 2s. 10d. per lb. for very dull and damaged root; good quality is held at from 4s. to 4s. 3d. per lb.

JABORANDI.—There has just been an arrival of 12 bales of jaborandi-leaves from Maranham at Liverpool.

JALAP has been the chief talk of the week in the drug-market. The London firms which are taking the chief part in the present speculative movement and other houses have bought freely this week at prices ranging from 1s. 5½d. up to 1s. 6½d. per lb. The London stock is reported small, while in New York only a few bales are said to be left in

stock, and Hamburg is reported to have been reduced from 9 tons last week to 3 tons now. It is thought that the "bull" speculators have seized a favourable moment for their operation, as the new crop is not due until early in the year. At auction to-day several parcels, amounting altogether to 35 packages, were shown. Good bright Vera Cruz root was bought in at 1s. 6d. per lb.; and 2 bags light, partly split and wormy jalap sold, without reserve, at 1s. 1d. per lb. Another parcel of 4 bags small palish and split, partly heavy, mixed Vera Cruz brought 1s. 4d. per lb., and for yet another 1s. 3d. per lb. was refused. The auctions included some small pale root, described as "old-fashioned Tampico," partly imported twenty-eight years ago. This was not sold. A parcel of 1½ ton very rough so-called "Tampico" is offering at 11d. per lb., London terms, to arrive in a fortnight.

KOLA.—In demand, nearly every parcel offering being readily taken up. Seventeen bags, mostly West Indian, dull and mouldy to fair brought 4½d. to 6½d. per lb. The supply is said to be falling low.

LIME-JUICE.—The sales included 10 cases of bottled lime-juice from Auckland, New Zealand, bearing the Crown brand. This is the first time, so far as we know, that such lime-juice has been offered at auction: 5s. per case was bid.

LIQURICE.—In plentiful supply. Fair Turkish root is held at 11s. 6d. per cwt., 11s. 3d. being the highest bid made. Eight bales from Bagdad, rather ordinary, with the bark, sold at from 7s. 6d. to 10s. per cwt.

MUSK is still in good supply, but there is very little demand in London in spite of the general concurrence of reports to the effect that the Chinese markets are ill-supplied and that prices have risen considerably there. Of first pile *Tonguin pods*, 23 caddies were offered, but only 1 sold at 52s. for small to bold slightly damp, mostly old-fashioned pods, partly thin brown skin well-trimmed. Of the 26 caddies, third pile, 4 found buyers at 34s. for good hard skin old-fashioned well-trimmed, and 23s. for damp small to medium unsightly, partly thin skin.

MUSK-SEED.—Sixteen bags good fresh seed sold at 6d. per lb.

OILS (ESSENTIAL).—The following figures concerning the shipments of essential oils from Ceylon between January 1 and September 4 are of interest:—*Cinnamon* oil (from bark and leaves): 1893, 114,109 oz.; 1892, 71,074 oz.; 1891, 108,614 oz.; 1890, 41,444 oz. *Citronella* and lemongrass oils: 1893, 7,317,595 oz.; 1892, 9,720,637 oz.; 1891, 9,007,001 oz.; 1890, 9,033,552 oz. The market for *Star-anise oil* in the Chinese ports remains firm and steady; prices have to be conceded to lead to business. The quotation from China (October shipment) is 5s. 5d. per lb., c.i.f., which shows a slight advance. In London the price remains 5s. 6d. to 5s. 7d. per lb. *Cajuput oil* was bought in to-day at 2s. 9d. per bottle; of so-called *Cinnamon oil*, 21 bottles sold at 2½d. per oz. *Nutmeg oil* is scarce, 3½d. being refused for a lot which is held for 4d. per oz. Two cases yellow Japanese *Peppermint oil*, sold without reserve at 7s. 3d. per lb. *Menthol* has advanced, good quality being now quoted at 11s. 6d. per lb. *Oil of lemon* is tending slightly lower. *Geranium oil* is becoming somewhat scarce, and there is a general tendency to raise the price.

OLIVE OIL.—There is not very much cargo-oil offering in London at present. The quotations are 32l. 10s. to 33l. for *Mogadore*, and 35l. per tun for *Spanish oil*. *Syrrian oil* has sold to small extent in Liverpool lately at 31l. 10s. to 32l. 10s. per tun. The crop reports from Spain have been somewhat unfavourable lately, and at present the quotations in the local markets are too high to admit of trade with England. Throughout the Levant the crop prospects seem good, although in some parts the fruit is late in ripening, and no new oil of good quality will be available for shipment until February. In Italy the crop is now being gathered, and the result is described as very satisfactory in most districts. Sicily is also likely to have a good crop, and the olives there will shortly be ready for pressing.

OPIMUM.—The business transacted in London this week has been small, and mostly confined to manufacturing-gum, at the rate of about 10s. 6d. to 11s. per lb. for old seconds.

The last business done in *Persian* opium is said to have been at the rate of 11s. 6d. per lb. for good quality. At auction to-day 3 cases sea-damaged *Persian* sold without reserve at 8s. 6d. per lb. Our Smyrna correspondent writes under date of September 15:—"Since writing on September 9, about 65 baskets of talequale (old) have been taken by two of our principal American buyers at the parity of 10s. 9d., rising to 11s. 4d. per lb. Our market closes very firm, and we presume that the next purchases will open 3d. to 4d. per lb. over our last price. Nothing has been taken this week for the Dutch Government. Our Sanitary Health Office reports fewer cases of cholera daily—in fact, yesterday we had only three cases, one of which proved fatal. We hope, soon, all infection will die out, in which case all quarantine for Smyrna will be abolished. The arrivals of new opium in Smyrna from the opening of the season until September 15 have been 480 baskets, against 2,593 in the corresponding period of 1892.

ORANGE-PEEL.—Three cases fair thin *Malta* strips realised 8d. per lb. to-day.

ORRIS—*Italian* root is firmer, best *Florentine* being held at from 79s. to 84s. per cwt. f.o.b. now. *Mogadore* root was in fair supply to-day, 29 packages selling at 22s. for low dark, and 35s. to 38s. 6d. per cwt. for good fair quality.

PALM OIL has advanced considerably lately. *Lagos* oil on the spot is now held for 26l. 10s. per ton.

QUASSIA is in heavy supply, the arrivals having been very large lately. The price for logs is nominally 80s. per ton now, but dealers are not in the market at present. They probably expect that the drug will fall again to 30s. per ton, at which it has stood more than once.

QUICKSILVER.—6l. 10s. per bottle is the importers' price, while second-hand holders are prepared to shade that quotation by 1s.

QUINCE-SEED.—Three bags fair seed from the Cape sold at 8d. per lb. to-day.

QUININE.—Decidedly firmer. Business has been done to the extent of a few thousand ounces at 9½d. for second-hand German bulk, and since then 9½d. has been asked. It is said that the factories are by no means anxious to sell, and have refused orders even at their nominal prices this week. At to-day's auctions 3 cases each of 100 1-oz. bottles of Howard's quinine (red seal) were bought in at 1s. 3d. per oz.

RHUBARB.—In large supply. Of 135 cases offered to-day only 32 sold, most of these being new-crop root, and offered without reserve upon arrival, in accordance with the recently-inaugurated system. *Canton* brought an advance of ½d. to 1d. per lb. on the last sale rates—round small to medium partly bold fair coat pinky grey fracture selling at 1s. to 1s. 2d., medium flat greyish fracture pale coat at 1s.; rough round and flat mixed pickings at 11d. per lb. *High-dried*, small, stalky, fair fracture, round, brought 8d. per lb. *Shensi*, small round druggists' root, 1s. 1d. to 1s. 2d.; medium flat, fair coat, partly spongy, grey fracture, also 1s. 2d. per lb.

SAFFRON is still advancing. The last quotation from Spain is from 24s. to 25s. 6d. per lb. for good to fine Valencia.

SARSAPARILLA.—All kinds are dull of sale. For 3 bales damaged *Guayaquil* in small bundles 8½d. per lb. was refused to-day. Good bright grey *Jamaica* is held for 1s. 4d. per lb. (1s. 3d. per lb. being refused), while for damaged *Lima-Jamaica*, an offer of 8d. per lb. was rejected.

SCAMMONY.—The first arrivals of the new season's scammony were placed in sale to-day. First quality is held at 21s. to 23s. per lb., seconds at 15s. to 20s. per lb. For a new parcel of root 27s. 6d. per cwt. was accepted.

SENNA.—*Timmelly* leaves, of which 204 bales were offered to-day, sold with strong competition at an advance of about ½d. to ¾d. per lb.; fine medium to bold green leaf, 7½d. to 8d.; medium greenish, 4½d. to 6d.; common dark and specky to fair small, to medium yellowish, 1½d. to 3½d.; low, ¼d. to ¾d. per lb. Pods neglected. For *Alexandrian* pale pods 5d. per lb. was paid to-day, and 6d. per lb. for fair small leaf.

SHELLAC.—The market opened dull and without improvement this week. There has been a rather better continental

inquiry, however, particularly so for *Button lac*, of which there is not much on offer. Third and fourth grades of this variety have been specially favoured by buyers, and for *Fine orange lac* 130s. per cwt. was paid before the auctions. At the sales 1,019 cases were placed before buyers, of which only 114 cases second orange sold, at a decline of 2s. 6d. per cwt. as compared with the preceding auctions—viz., 110s. per cwt. for fair worked and fair slightly-caked unworked. *Cahey AC Garnet* was held for 100s. per cwt., and all the button lac was limited at figures too high to admit of business. The speculative market has been vacillating, but it closes firmly with a strong tendency and a considerable business in orange TN for October delivery at 111s., November and December at 110s., and January at 109s. to 110s. per cwt.

SODA CRYSTALS may still be had at 62s. 6d. per ton from the London makers, or at 60s. ex ship. The Tyne quotation is 55s. per ton.

STAR-ANISE.—Reports from Canton, dated August 22 state that up to that time only one dealer had offered a small lot of new season's supply at \$34, which is about \$7 above the opening price of last season's. The other dealers were still quite unwilling to come forward with offers, as the advices about the yield of the new crop continue very poor. The state of things, however, still seems somewhat uncertain, and it is very possible that prices will give way later on, and that the season will only be a late and not a poor one. A few small parcels of old cargo are still offered at \$30, but the quality is not good enough for export. A fair trade has again been done in London this week at 67s. 6d. to 70s. per cwt for fair China. For shipment from China (October-November), new crop star-anise is offering at 70s. per cwt., c.i.f. terms. At auction to-day 14 cases were bought in at 75s. per cwt.

SULPHUR.—A quiet market. Foreign *Flowers of brimstone* may be had at 6l. 10s., roll at 5l. 15s. per ton. The quotation on Tyne is 82s. 6d. to 85s., f.o.b.; best thirds, 65s. c.i.f. terms.

TEA.—The Ceylon market is very firm, and a heavy sale on Tuesday went off in very animated style, rubbish selling at 5½d. to 5¾d. per lb., and only a few lots of poor liquoring rough leaf Souchong sold as low as 6d. A few fair liquoring Pekoes sold at 7d., but a very little quality and character sent the price up to 8d. and 9d. per lb., and broken Pekoes were equally strong. Really fine teas were run up to high figures from 1s. 6d. to 1s. 11d. per lb. Assams were steady enough on Monday, but later in the week a somewhat unexpected revulsion took place, terminals easing a point or two and lower grades showing a decline of about ¼d. per lb. Fine Pekoes and broken Pekoes continue scarce and dear, and look dangerous stock at present rates, though Irish buyers seem ready enough to take at these high prices the few really good teas that are on offer. *Chinas* are inclined to be flat for Kaisous, and fair leaf tea has been sold at 5½d., but Monings under 7d. are as steady as ever.

VANILLA.—A fair supply was offered to-day and sold at rather higher prices for short pods, medium and long pods being steady. Crystallised, 8 inches, brought 14s.; 4 to 7½ inches, 7s. to 8s. 3d.; chocolate, 3½ to 7½ inches, 8s. to 10s.; ordinary kinds, partly foxy, from 8s. 3d. down to 3s. 6d. per lb.

WAX (BEES).—*Jamaica* sold well at 7l. 7s. 6d. to 7l. 12s. 6d. for good red to fine orange. *Madagascar* was nearly all bought in. For fair *Macagan* (Moroccan) wax 5l. 15s. per cwt. is asked, and for greasy *Mogadore* 5l. 2s. 6d. per cwt.

WAX (JAPAN) has been in good demand, and a large business has been done on the spot at somewhat higher prices. Twenty-five cases small yellowish sold at auction to-day at 33s. 6d. per cwt. Present shipment from Japan is quoted at 32s. per cwt., c.i.f. terms.

WOOD OIL.—Twenty drums sold at 3½d. per lb.

THE LIVERPOOL MARKET.

BALSAM (CANADA).—New crop has arrived, and is offered at 1s. 8d.

BALSAM COPAIBA.—There has been a small arrival of

Maranhão, per s.s. *Braganza*. and holders are firm at 1s. 8d. for bright and 1s. 7½d. per lb. for cloudy.

CHILLIES.—More business doing in fine reds at 34s. to 35s. per cwt.; inquiries are now coming in for the lower grades.

GUM ACACIA.—Although there are many inquiries, buyers seem disinclined to operate at present prices, but holders remain firm.

OIL (CASTOR).—There is a steady demand now, and the price of good seconds *Caleutta* is 2½d. to 2¾d. per lb. The *Chancellor* has arrived with 550 cases, but the market has not been depressed thereby.

QUILLAIA.—Nominally 16l. 10s., but holders would, no doubt, take less in quantity.

SEED (CANARY).—The upward movement continues. Sales of old seed were made at 35s., and now 36s. is asked.

WAX (BEES).—In good demand. Ten bags Gambia, just in, sold at 6l. 10s.; 31 bags Chilian to fair white sold at 6l. 15s. to 7l. 15s., according to grade.

THE NEW YORK MARKET.

(From our Correspondent.)

NEW YORK, September 20.

THE delay in the passing of the Silver Coinage Bill, brought about by the filibustering tactics adopted by the friends of silver in the United States Senate, seems to be exerting a somewhat unfavourable action upon the commerce of the country, which but for this delay would have presented an even greater improvement than has been shown during the past month. Even in spite of this drawback money is somewhat easier, and drug-prices, as a rule, firmer than last week. *Canada balsam of fir* is reported in scant supply at the primary sources, and, as a consequence, holders here are firm at \$3, though there are no takers at that figure. An active consuming demand is noted for *Balsam copaiba*, and quotations are firm at unchanged figures. *Balsams of Tolu and Peru* are quiet at unchanged prices. *Ciscara sagrada* is attracting some attention. Sales are reported of nearly 8,000 lbs. at 6½c., at which price the market is firm. *Coca-leaves* are depressed, *Truxillo* leaves offering, without takers, at 12c. *Jaborandi-leaves* are in scant supply, and job at 60c. *Menthol* is held at \$3.90 to \$4. *Bromides* have been advanced 2c. The American bromine "pool" appears to be very sure of its ground, and desirous of making enough money to compensate for the profitless business transacted during the bromine war last year. Second hands are offering *Citric acid* at 44½c. to 45c., which is 1c. less than manufacturers' prices. *Nitrate of soda* is steady, at \$1.70 to \$1.75 from first hands. *HIGH Peppermint oil* offers at \$2.50 to \$2.55 on the spot, though there are more inquiries for futures than for spot goods. For Western bulk \$2.20 is accepted, but Wayne county (N.Y. State) bulk oil brings \$2.40. Crop reports as to *Tansy* and *Wormwood* oils are decidedly unfavourable, and there is a corresponding firmness. Wayne county will, it is said, not have more than one-third of a crop of wormwood oil. Outside holders still shade prices on refined camphor. *Ginseng* has been inquired for, and is stiffer at \$2.25 to \$3. *Ipccacuanha* has declined to \$1.22½ to \$1.30. Some eighty odd bags of *Jalap* have been taken for export at 20c. to 21c. Second hands ask 27c. to 28c. *Orris* is easier. Mexican *Sarsaparilla* is firm at 9c. to 10c., with light supplies. *Senega* is easier, at 33c. to 35c. for Minnesota, and 32c. for Manitoba.

THE DUTCH MARKET.

AMSTERDAM, September 27.

ALL the analyses for our cinchona-auctions on October 5th have been completed. The manufacturing-bark contains 18 tons sulphate of quinine, or 5.02 per cent. on the average. About 5 tons contain 1-2 per cent., 14 tons 2-3 per cent., 89 tons 3-4 per cent., 80 tons 4-5 per cent., 78 tons 5-6 per cent., 43 tons 6-7 per cent., 36 tons 7-8 per cent., 6 tons 8-9 per cent., 4 tons 9-10 per cent., and 1 ton contains 11-12 per cent. sulphate of quinine.



Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications, with, if desired, a distinctive nom-de-plume.

The Right to the Word "Hazeline."

SIR,—In last week's issue of your journal we observe that you publish a formula (taken from the *Canadian Druggist*) for "Hazeline" cream. We now ask your kind permission to state that possibly some misconception may arise as to the right to use the word "Hazeline" through its connection with the formula referred to. The title "Hazeline" being one of our registered trade-marks, is duly protected, and may not be used either alone or in combination in regard to any preparation by anyone but ourselves. We are convinced that when this is once made clear no attempts will be made to use it illegally. Yours respectfully,

September 26. BURROUGHS, WELLCOME & Co.

"Izal."

SIR,—I wrote to Messrs. Allen & Hanburys for the price of the above, and received from them a quotation at 8s. per gallon, and it made me look very silly when I presented my price—10s.—to the Sanitary Authority here to find that they had had "Izal" offered to them at 3s. 6d. per gallon from the makers. This price—3s. 6d.—I may say, was for 40-gallon lots; but do you think it fair to the trade that there should be all this difference.

Yours,

FAIRPLAY. (118/20.)

The Decline in the Patent-medicine Trade.

SIR,—I must think that the falling-off in the sale of "patent"-medicine stamps is due to the cutting prices at which these medicines are sold. Once upon a time chemists pushed the sale of such goods in every possible way; now most of them try to discourage people from buying these nostrums, and recommend some preparation of their own. I know chemists who were formerly very anxious to have handbills with their names printed on, and regularly distributed them on market-days, and also had them delivered from house to house. At the present time many in the trade refuse to make use of any such printed matter, nor will they exhibit a showcard, or let a handbill other than their own be used, as formerly, for counter-use. Let the proprietors of "secret" remedies follow the example of Messrs. Elliman & Co., and the retailers do likewise.

Yours truly,

FORTY-FIVE YEARS A CHEMIST. (126/18.)

Dr. Foy on Kay's Essence.

SIR,—I write to state that your report of my evidence, on page 475 of your issue of September 23, is inaccurate and misleading.

7 Cavendish Row, Rutland Square
East, Dublin, September 26.

Yours truly,
GEORGE FOY.

[Dr. Foy's letter reaches us as we go to press. Perhaps he will be good enough to point out exactly in what particular our report of his evidence is inaccurate. The case is an important one, and we are anxious to present it with absolute correctness.—ED.]

A Syphon-swindle.

SIR,—In your issue of September 9, we see "Pancrasian" alludes to a "syphon-swindle" perpetrated on him recently. As the—presumably—same girl was detected in attempting a similar fraud by one of our assistants, and handed over to the police, it may interest him to know that the Magistrate decided to treat the case under the First Offenders Act, and handed her over to the custody of her friends conditionally on her promising to enter a home as soon as room could be found for her. At the same time, we would advise other chemists to be on their guard, as it is most probable this girl had been put up to the trick by somebody else, and, consequently, it may be tried again by some other individual.

We are, yours faithfully,

42 Castle Street East,

BIRD & STOREY.

London, W., September 27.

DISPENSING NOTES.

Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the under-mentioned topics.

124/4. Salicylate of Sodium with Strontium Bromide. —*Analuo* wishes an opinion on this prescription. How can it be best dispensed?—

Sodii salicylatis	..	..	..	..	grs 240
Strontii bromidi	..	..	..	..	320
Aq. ad.	..	..	..	..	℥viij.

Ft. mist.

[Dissolve the salicylate in 2 oz. of distilled water, the bromide in the remainder of the water, add the bromide gradually to the salicylate, with a brisk shake after each addition.]

123/4. *Cascara*.—Hydrarg. iod. Rub. et Sodæ Bicarb. —The best way to dispense the following mixture:—

Vin. ipecac.	..	..	..	..	℥ss.
Hydrarg. iod. rub.	..	..	..	..	gr. i.
Sodæ bicarb.	..	..	..	..	℥ss.
Ess. menthae pip.	..	..	..	..	q.s.
Aque ad	..	..	..	..	℥viij.

M.

would be:—Dissolve the sodæ bicarb. in the aqua, to which has been added the vin. ipecac. and ess. menthae 3ss. Place the hydrarg. iod. rub. in a mortar, rub up with the solution, gradually added, and dispense with a "Shake-the-bottle" label—mercuric oxide being ultimately formed.

127/60. *H. W. W.*—The change is due to the alteration of the natural colour of the violets by the ammonia. You cannot prevent that, and there is nothing extraordinary about it.

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY, page 152 et seq.

122/36. *Ether. Sulph.*—A boy goes to serve his time (paying a premium) with a pharmaceutical chemist, and eighteen months after entering on his apprenticeship his master opens another place in a town thirty miles off and lives there, leaving said apprentice in former shop with an assistant. Can the apprentice object to serve the remainder of his time under the assistant, and thus compel his master to take him to his own house, or, in case of his master refusing his request, can he recover a part of his premium and cancel agreement? No indentures are drawn up.

There is no case that we know of on all-fours with the

present one, but the law is that it is one of the essential parts of contract for apprenticeship that the master should teach the apprentice, and we think that he must give him his personal attention and supervision. This duty would not, in our opinion, be discharged by leaving the apprentice to an assistant and going to live thirty miles off. The Court of Appeal decided in *Eaton v. Western*, 8 Q. B. Div. 636, that there was an implied contract that the circumstances should remain during the apprenticeship in all essential particulars the same as at the commencement. The questions whether the apprentice is entitled to live in his master's house and sit at his table are questions of contract, and could only be settled by an inspection of the agreement between the parties, but we think that *Eaton v. Western* would apply to this case also. The proper course to adopt would be for the apprentice's parent or guardian to apply to the master to take the apprentice under his own personal supervision, and, if he declines to do so, to bring an action against him for damages for breach of contract, which would cover the question as to the return of the premium. It has been decided in the case of an outdoor apprentice that he cannot be compelled to follow his master to a new business, but we do not know of any decision with regard to an indoor apprentice. In this case, if the apprentice is willing to follow his master, the latter can have no reasonable objection; otherwise the master must come back to the apprentice, or pay damages and release the apprentice.

Mr. F. W. Dennis refers to the label on Crosby's Cough-elixir, which says: "This Cough-elixir containing amongst other ingredients, certain preparations under Schedule A, Part 2, Pharmacy Act, 1868, the law requires it to be labelled Poison." Mr. Dennis queries whether that is a sufficient compliance with the Act. In our opinion it is. The name of the article is what the law requires, and the label gives that. Mr. Dennis will find the point raised and discussed in *THE CHEMIST AND DRUGGIST* of August 27 and September 3, 1892.

129/36. *Scientia*.—The stamp on all indentures of apprenticeship is now reduced to 2s. 6d., and the covenant against competition does not alter the question. If there is any doubt about a stamp on any document, the best way is to have it adjudicated, and for this purpose it is necessary to send the original and an abstract or copy of it to Somerset House, when an official adjudication will be made free of charge, and even if this is wrong no penalty can be recovered and the stamp cannot be questioned. An adjudication-stamp is affixed to the document, together with the stamp-duty.

MISCELLANEOUS INQUIRIES.

117/41. *Progress*.—Foot-rot Lotion.—Have you noted answer concerning the above at page 378, September 2, 1893, also a correspondent's letter in a recent issue, giving his experience of the same? See also recipe in issue of August 26, 1893, page 342. This also makes a good lotion:—

Alum. sulph.	3iij.
Cupri sulph.	3i.
Liq. hydrarg. perm. .. .	3ss.
Mellis	3ij.
Aque	3xvj.

M.

116/48. *Potatoes*.—The only reliable test for detecting wheat from potato starch is the microscope, and it is not difficult to detect the difference even in bread; there are sure to be some granules in it sufficiently unaltered to allow of identification. But you must not forget that most bakers use potatoes, not as an adulterant, but for fermentation purposes, and to make the bread lighter in texture. A most useful microscope for your purpose is advertised by Messrs. F. Darton & Co

119/39. *Cautious One*.—We do not advise on financial matters, but we cannot help recommending you not to entrust money for investment to agents abroad until you get perfect assurance of their stability. Do you think our great financiers here would put up with 3 per cent. if they could be sure of a safe 5 per cent. by the simple expedient of sending their money to Paris?

122/44. *Phono*.—Edison's phonographs are leased (not sold) by the Edison-Bell Phonograph Corporation, Northumberland Avenue.

120/31. *Oleum*.—Nursery Hair-oil.—Add 1 drachm ol. staphisagriae to 1 oz. of any good commercial hair-oil. Colour, if considered advisable, with turmeric or alkanet-root.

120/29. *S. L.*—To Destroy the Hair off a Young Lady's Chin, there is no better method than depilation with a good pair of tweezers, or electrolysis, which has become a fine art with certain specialists, whose advertisements you will find in most Society newspapers.

119/57. *F. W.*—The Right Way to Stick a Gold Label upon a Stock-bottle is:—Paste the label neatly on with well-boiled flour paste, allow it to dry, and size with a hot weak solution of gelatine in water. Next day varnish with recently-prepared copal varnish. See that the varnish is carried at least an eighth of an inch beyond the label all round.

120/16. *Interested Junior*.—White Dental-stopping.—See page 97, July 18, 1891. To Manipulate the Sample of Amalgam you sent, add mercury slightly in excess to make a soft paste; squeeze out excess of mercury, and pack quickly into the cavity of the tooth. Properly prepared, it will be quite hard in an hour or two.

121/50. *W. E. B.*—Solution of Cocaine, used by dentists for the Painless Extraction of Teeth.—A 5 or 10 per cent. solution of hydrochlorate of cocaine in distilled water is usually used, a few minims being injected into the gum, by the side of the tooth, with an ordinary hypodermic syringe.

123/3. *Sacristan*.—We do not remember the promise you quote. The information in our educational number is full enough to provide an answer to your question if you will study it carefully.

123/49. *J. B. B.*—We regret we cannot report on your tincture. Better throw it away.

123/38. *Subscriber*.—We published a series of lecture-outlines in *THE CHEMIST AND DRUGGIST* of February 22, March 1, and March 8, 1890. You would find "Scientific Mysteries," published at this office at 1s., very useful.

117/28. *Cotopaxi* asks advice respecting a book treating of Spermatorrhœa, and the name of a "specialist" in the same. The best book of moderate size on this subject is "Impotence and Sterility," by Professor S. W. Gross, of Philadelphia, published by Young I. Pentland, at 5s. Dr. Hargreave's book is also good. Amongst the physicians and surgeons who have had special experience in that line may be mentioned Sir E. H. Sieveking, 17 Manchester Square, W.; Mr. Buxton Shillitoe, 2 Frederick's Place, Old Jewry, E.C.; and Mr. J. A. Bloxam, 8 George Street, Hanover Square, W.

121/35. *Lancashire*.—(1) To Render Legible Labels, written in ordinary writing-ink, which has faded, moisten the labels with water, and allow the fumes of liq. ammon.

fort. to act on them; at times, when this method fails, careful brushing over the labels with an aqueous solution of ferrocyanide of potash is useful. (2) Substitute for Curlingtongs.—"Hinde's Curlers," put up in boxes to retail at 6d. and 1s.

122/1. *Xeres* wishes to know if it is possible to make a White Creamy Liniment from this formula:—

Sap. molliis (B.P.)	3j.
Ol. terebinth.	3iss.
" adipis	3j.
Liq. ammon. fort. (830)	3j.
Ae. acetic. (33 per cent.)	3j.

M. sec. art.

He has tried it twice and failed each time. Correspondence concerning similar liniments has appeared in this journal recently. There are two things about the formula which tend to prevent or render more difficult the formation of a nice "cream"—viz., the non-addition of about 4 oz. of water, and the using of acid. acetic. along with liq. ammon. fort. Try it this way:—Mix the oils, rub up the soap in a mortar along with the liq. ammonii diluted with 4 oz. of water; add to the oils with a brisk shake. If a preparation containing an acetate be considered essential, add last of all 1 oz. liq. ammon. acet. fort. B.P. A better preparation is obtained without this addition.

36/1. *W. L.*—Creolin (which is identical with Jeyes' Fluid) consists of the higher homologues of phenol rendered soluble by the addition of resin soap. The cresols contained in it are claimed to be as active and less poisonous than carbolic acid.

26/25. *F. W. C.* wants to know what is the varnish used by photographers in Retouching the back of negatives for the purpose of giving a tooth to the pencil. [Matt-varnish the back of the negative. Where the varnish is not required it may be scraped away with a knife. This gives a splendid tooth to the pencil.]

116/1. *F. R.* asks for a formula for a gum or Paste Suitable for Mounting Photos—one that will not take the enamel off. [Trim prints before toning, and after squeegeeing down on to ferrotype plate or glass while still damp, take a brush and go round the edge with pure gum arabic mucilage. Allow this to dry, and when the print peels off repeat the process, rub well down on the mount, and place under a weight. The print will be perfectly mounted and none of the glaze lost.]

123/64. *Alfo.*—"Electroplating," by J. W. Urquhart, C.E., 5s. (Crosby Lockwood & Co.)

127/9. *Distiller.*—Brant's "Vinegar, Cider, and Fruit-wines," 25s. (Sampson Low & Co.).

122/5. *Acetic.*—Headache-powders.—Phenacetin, 8 to 12 grs.; antipyrin, 10 to 15 grs.; salicylate of soda, 10 to 20 grs.; or pulv. pot. bromidi, 25 to 30 grs.

120/52. *Cymro.*—Suitable Books for "Counter-prescribing," by chemists. Begbie's "Medical Information and Advice," 2s. 6d. (Nelson); Tanner's "Index of Diseases," 10s. 6d. (Renshaw); Meadows' "Prescriber's Companion," 3s. 6d. (Renshaw); and Squire's "Companion to the B.P." 10s. 6d.

118/46. *W. X. Y.*—The cheapest substance ("wax or anything") to Make Very Stiff a Common Petroleum Jelly (veterinary) is what is recognised in the B.P. as "paraffinum durum." This you can buy under the commercial name of "paraffin wax" at any price from 5d. or 7d. per lb., according to the melting-point or the quantity you are prepared to take into stock. Ol. Citronellæ does not improve by keeping. If

you have a quantity and wish to store it, do so in perfectly dry bottles, well-filled and tightly corked. Keep in a cool place.

105/9. *Montpelier.*—Predigested Cod-liver Oil with Malt Extract:—

	Parts
Cod-liver oil	150
Water	50
Scale pancreatin (soluble)	1
Chloride of sodium	2
Bicarbonate of sodium	2

Dissolve the pancreatin along with the salines in the water, digest at a temperature of about 90° F. for three hours, stirring occasionally. Put 200 parts of any good commercial extract of malt in a mortar, add the pancreatised oil gradually, and flavour with oil of pimento q.s.

124/14. *Physic Factor.*—We do not think we can with advantage to anybody offer advice to unqualified men as to how best to utilise their experience and talents in directions other than pharmacy. Opportunity and special gifts must be taken into account in every case.

124/6. *Sailor.*—The sick-berth staff of the Royal Navy is made up in a similar way to the Army Hospital Corps—i.e., persons who wish to get on the staff must enlist. The naval hospital dispenserships are civil appointments.

119/70. *F. B.*—Oxychloride-of-Zinc Stopping for Teeth.—See page 97, July 18, 1891.

122/55. *W. B. A.*—The Dusting-powder which acts as a charm for abrasions caused by wearing poroplastic jackets, trusses, &c., consists of boric acid, starch, and a very pure light-coloured fuller's earth. Try this:—

Powdered boric acid	3ij.
" fuller's earth	3ij.
" starch	3iv.

Mix.

Bring up to the desired shade of colour with tincture of saffron.

123/25. *Collodion.*—A Cure for Soft Corns, liq. plumbi and tr. myrrhæ having been tried without effect.—A great deal depends upon the method of application. Try this lotion, and recommend its use as directed:—

Plumbi acet.	gr. v.
Pulv. opii	gr. v.
Ae. acetic.	℥vj.
Aq. bullient. ad	3j.

Rub up in a mortar, and filter.

Two pieces of lint, cut rather larger than the corns, to be saturated with the lotion and applied, one above the other, at bedtime each night, a piece of gutta serena tissue to be wrapped round and fixed securely; remove in the morning. If between the toes, a soft pad of absorbent cotton-wool to be placed during the day.

123/24. *T. A. H.*—Black Stain (also dressing) for Brown Leather Boots.—See page 353, August 29, 1891.

124/4. *T. R. L.*—Liq. Euonymin. et Papain. Co.—Use formula given for a similar preparation with pepsin at page 129, July 22, 1893, but substitute 3j. each of papain and bicarbonate of soda for the 3ij. pepsin there given.

126/62. *Walnut.*—Walnut Hair-wash, to darken the hair, eyebrows, whiskers, &c.; also for cleansing the head, removing scurf, preventing the hair falling off, &c.:—

Peels of green walnuts	3j.
Water	3xij.

Boil for ten minutes, then dissolve 3j. resorcin in the decoction and strain; add boiling water to 6ss.; to this add tincture of cantharides 3iv. glycerine 3iss., and perfume q.s.

20/20. *Tafleta*.—White Polishing-cream for any Colour of Boots:—

	Parts.
White wax	2
Stearine	1
Linseed oil	1
Turpentine	6
Curd soap	1
Water to	30

Cut the wax and stearine in shreds, add the linseed oil, melt in a water-bath, add turpentine; then dissolve curd soap in separate vessel with 10 parts of water, add while still hot to oil and wax, stir until uniform creamy mixture is formed, then add remainder of water gradually and stir until cold. Send out in wide-mouthed bottles.

119/51. *Phosphate*.—For Cleaning Brown Leather Boots, see answer to "Tafleta," but add phosphine or annatto to the melted wax and oils before adding the soap solution.

126/10. *G. D. Co.*—For the Nursery Hair-lotion (108/72) the stavesacre-seeds should be in rough powder.

40/11. *Black Knight*.—Blood-red Colour for Window Show-bottles, composed of iodine and sulphuric acid.—Dilute sulphuric acid 1 oz., tincture of iodine 2 oz., distilled water 1 gallon. If this should not be considered rich enough, increase the iodine until the desired shade is obtained.

INFORMATION SUPPLIED.

In reply to "Carolus" (117/38), Mr. W. Willis sends the following formulæ as remedies for sleeplessness:—

Paraldehyd.	℥xl.
Tinet. aurant.	℥xxx.
Aque ad	℥iss.

H.S.

Safe and effectual. Or—

Potass. brom.	grs. xx.
Sodii brom.	grs. x.
Spt. chlorof.	℥x.
Aque ad	℥iss.

H.S.

117/38. *Carolus*.—"Eucalyptera," a term used to designate certain proprietary remedies—a lotion and pills, sold at the usual prices. Barclay & Sons are the sole agents. It is claimed for the lotion that sleep is induced by simply rubbing it in. ADELAIDE.

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, post-card replies to the following:—

128/46. Maker of perfume "Lancashire Witches."

Next Week.

Meetings, &c., to be held, and business to be transacted thereat. Suitable notices will be inserted in this section if received by the Editor on or before Wednesday.

MONDAY, October 2.—*Pharmaceutical Society's School of Pharmacy*, 17 Bloomsbury Square, at 3 P.M. Opening of session, presentation of prizes by President, and inaugural address to students by Dr. Lauder Brunton, F.R.S.

MONDAY, October 2.—*Pharmaceutical Society of Ireland*, 67 Lower Mount Street, Dublin, at 7.30 P.M. Eighteenth annual meeting.

THURSDAY, October 5.—*Chemists' Assistants' Association*, 103 Great Russell Street, at 8.30 P.M. Opening meeting. Address by President.

NEW GALENICAL PREPARATIONS.

THE following are formulæ recognised for the first time in the United States Pharmacopœia, just published:—

Caffeina Citrata Effervescens.

Effervescent Citrated Caffeine.

Caffeine	10 grs.
Citric acid	10 grs.
Sodium bicarbonate	330 grs.
Tartaric acid	800 grs.
Sugar, in very fine powder	350 grs.
Alcohol	1,000 grs.

Triturate the solid ingredients, separately well dried, to a fine uniform powder. Mix this with alcohol to a soft paste, and rub it through a No. 60 tinned-iron sieve or enamelled colander. Then dry it, and reduce it to a coarse granular powder. Keep the product in well-stoppered bottles.

The Pharmacopœia Committee apparently do not yet know how to make granular effervescent preparations without alcohol. The new name is good.

Elixir Phosphori.

Elixir of Phosphorus.

Spirit of phosphorus	210 c.c.
Oil of anise	2 c.c.
Glycerin	55 c.c.
Aromatic elixir	1,000 c.c.

To the spirit of phosphorus, contained in a graduated bottle, add the oil of anise and glycerin, and mix them by repeatedly inverting the bottle until they form a clear liquid. Then add aromatic elixir in several portions, gently agitating after each addition, until a transparent liquid is obtained, and the product measures 1,000 cubic centimetres. Keep the product in dark amber-coloured well-stoppered bottles in a cool and dark place.

Spirit of phosphorus is ordered to be made by boiling 12 gm. of phosphorus in 1,000 c.c. of absolute alcohol. The process is antiquated, and favours the production of phosphoric acid. It would have been better to use John Williams's method, in which the ready solubility of phosphorus in hot glycerine is taken advantage of. All the phosphorus in the elixir can be kept in solution in this way.

Extractum Cimicifuge.

Extract of Cimicifuga.

Cimicifuga in No. 60 powder, macerated for forty-eight hours in alcohol and percolated until exhausted, the percolate being distilled and evaporated "to a pilular consistence."

Extractum Convallariæ Fluidum.

Fluid Extract of Convallaria.

Convallaria in No. 60 powder, macerated and percolated with diluted alcohol s.a. In making 1,000 c.c. the first percolate of 800 c.c. is reserved, and the remainder evaporated to a soft extract. Strength, 1 in 1.

Extractum Eriodictyi Fluidum.

Fluid Extract of Eriodictyon.

Eriodictyon-leaves in No. 60 powder, and a menstruum composed of alcohol 4 parts and water 1 part. Macerate and percolate, as in the case of ext. convall. fl. but reserve 900 c.c. Strength, 1 in 1.

Extractum Jalapæ.

In this case, curiously, no English name is given. The extract is made from No. 60 powdered jalap and alcohol, in the same way as ext. cimicifugæ, but with the peculiar provision of reserving the first 900 c.c. of percolate. The remainder is evaporated to 100 c.c.; both are then mixed and evaporated to a pilular consistence. We presume that the reserve in this case is made so that the final colour of the extract will be as fine as possible. Heat does not materially affect the medicinal properties of jalap.

Extractum Lappæ Fluidum.

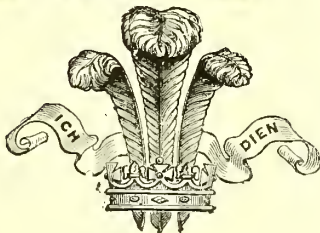
Fluid Extract of Lappa.

Lappa-root in No. 60 powder and diluted alcohol are the materials, and maceration and percolation the process. When a litre is made the reserve measures 800 c.c. Strength, 1 in 1.

20 HIGHEST AWARDS.

Pears' Soap

Soap Makers
by Appointment to



H.R.H.
The Prince of Wales.

RETAIL PRICES.

6d.

SIZE, unscented

Per
Dozen.

4s.

1s.

,, all shapes, Washing or Shaving

8s.

1s. 6d.

,, Ditto ditto

12s.

2s. 6d.

,, (The Washing Tablets are
perfumed with Otto of Roses)

20s.

TRANSPARENT
GLYCERINE

2s.

per Box of 3 Tablets

16s.

Per dozen
Boxes.

WHOLESALE PRICES.

DISCOUNT of 20 per Cent.
On all ORDERS of NOT LESS than **£5.**
(GROSS TRADE-PRICE VALUE.)

If accompanied by Remittance,

[Lesser Quantities 15 per Cent. Discount only.]

IMPORTANT STATEMENT.

No Dealer in the Kingdom, "Wholesale or Retail," for any quantity whatever obtains more than the above **20 PER CENT.** Discount.

(Signed), *A & F Pears, Ltd.*
71-75, NEW OXFORD STREET, LONDON, W.C.

THE
"STANDARD OF QUALITY."

ESSENTIAL OILS

MANUFACTURED OR SELECTED BY

DODGE & OLCOTT,

NEW YORK, U.S.A.

ESTABLISHED 1798.

OILS BAY, CARAWAY, CLOVES, CUBEBS, PEPPERMINT, SANDAL,
SASSAFRAS, SPEARMINT, TANSY, WINTERGREEN,
WORMWOOD AND MANY OTHERS.

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ASHMORE & SON,

AGENT FOR THE CONTINENT OF EUROPE—

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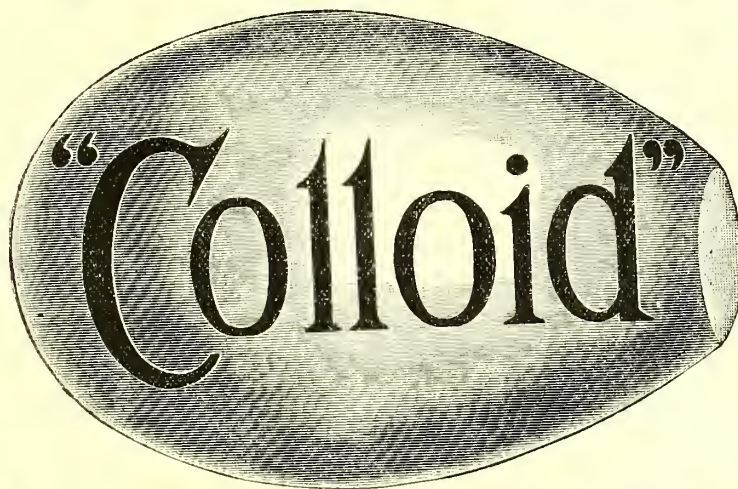
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6 MINCING LANE,

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QUITE NEW!!!

THE



CAPSULES.

Once introduced, will always be asked for.

SOLD in bulk, or in elegantly got up boxes for Retail Sale, WITHOUT Name, or in quantities of 6 doz. boxes of one kind, with Retailer's Name and Address.

Specimen Prices.

	Per 1,000.	Per Doz. Boxes.
Caster Oil (15 min.)	12/-	8/-, 36 in each.
Cascara (30 min.)	14/6	10/- 36 „
Copaiba (10 min.)	10/-	7/- 36 „
Copaiba and Cubeb	18/-	10/- 36 „
Sandal Wood Oil (English), 10 min. 38/-	13/-	24 „
Turpentine (10 min.)	9/-	7/- 36 „

SEND FOR COMPLETE LIST AND SAMPLES TO

T. Howard Lloyd & Co.,

HIGH STREET AND TOWN HALL LANE, Leicester.

CRESCENT



BRAND.

BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

ANALYSIS.

Bicarbonate of Soda	...	...	...	...	97.20
Mono Carbonate of Soda	...	...	...	...	1.90
Sulphate of Soda	—	...	...	...	trace
Chloride of Sodium	...	...	...	...	.035
Moisture	...	...	...	...	.82
Insoluble	...	...	...	...	nil

PURE ALKALI,

GUARANTEED 58 DEGREES.

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers
Bleachers, Dyers; Glass, Paper, and Soap Makers.

CONCENTRATED CRYSTAL SODA

(Sesqui-Carbonate).

By far the Purest and Cheapest form of WASHING SODA.

Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda.

SODA CRYSTALS

OF THE FINEST QUALITY.

Also BLEACHING POWDER.

BRUNNER, MOND & CO., LIM.

*Manufacturers of Soda by the Ammonia Process,***NORTHWICH, CHESHIRE.**

AN ATTRACTIVE LINE!

RICHARDSON'S IMPROVED FLEXIBLE GELATINE CAPSULES

PUT UP IN SPECIALLY DESIGNED BOXES FOR RETAIL.

CASCARA

CASTOR OIL

COPAIBA

SANTAL OIL.

TO SELL AT ONE SHILLING AND TWO SHILLINGS EACH.

These Capsules
should prove
very popular.
*"British and Colonial
Druggist."*

Of most
elegant
appearance.
*"Australian Journal
of Pharmacy"*

Boxes are
very distinctive.
Capsules very
satisfactory.
"The Chemist and Druggist"

WE ALSO MANUFACTURE

GELATINE PERLES

CONTAINING
CHLOROFORM

CARBOLIC ACID

CREASOTE

TURPENTINE, &

HAVING NO SIGN OF A JOINT, YET THEY ARE PERFECTLY SPHERICAL.—CHEMIST AND DRUGGIST.

SAMPLES AND PRICES ON APPLICATION.

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ESTABLISHED 1793.

INCORPORATED 1891.

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MORRIS & CALLARD,

PONTAMMAN CHEMICAL WORKS,
AMMANFORD, R.S.O., CARMARTHENSHIRE,
MANUFACTURERS OF

ACETIC ACID, P.B., ACETIC ACID FORT., SP. GR. 1-040
ACETATE OF SODA, COPPERAS,
PURE WOOD NAPHTHA, SULPHURIC ACID & CHARCOAL

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CARBONATE, CALCINED, AND HYDRATE.

PURE FLUID MAGNESIA.

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LONDON AGENTS—MESSRS. CLIFFORD CHRISTOPHERSON & CO., 17 Great Tower Street, London, E.C.

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Castor Oil.	Camphor.	Albumen.	Ess. of Lemon.
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Acetic Acid.	Castile Soap.	Camomiles.	
Tartaric Acid.	Pepsin, P.B.		
Phosphoric Acid.			
Salicylic Acid.			

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IMPORTERS—EXPORTERS.

FUERST

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SAMPLES
AND PRICES
ON APPLICATION.

We only supply goods direct from
Manufacturers personally known to ourselves.
We can consequently vouch for the purity of the
articles we sell.

CORRESPONDENCE SOLICITED.

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MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL,

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and to send samples of our superior Nos. 1, 2, and 3 qualities of CITRATE OF MAGNESIA.

Importers of Cod Liver, Castor,
and Olive Oils; Extra Super
Essence of Lemon and Berga-
mot, Otto de Rose, and all



Essential Oils; Valentia Saf-
fron; Vanillas; Fruit Essences;
Carmine, Aniline Dyes; Bees'
Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, &c. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

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GUARANTEE ALL THEIR PREPARATIONS FOR
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SPECIALITY: SCALE PREPARATIONS.

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IRON CITRATE, QUININE & STRYCHNIA.

IRON CITRATE TRUE.

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AND ALL OTHER SCALES.

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Hydrogen Peroxide, Indigo Extract, Soluble Indigo Powder, Orchil, Cudbear, Logwood Extract, Fustic Extract, Aniline Dyes, Fine Lakes for Lithographic Inks, Vermilionettes, Drysalteries.

Sole Agents in United Kingdom and Colonies, excepting Canada, for

The New Bleach, **SODIUM PEROXIDE** (Aluminium Co., Ltd.).

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GILTSPUR STREET, LONDON, E.C.

Beg to inform their friends and the Trade generally that, having purchased the
Business of

BARRON, SQUIRE & CO., BUSH LANE,

and also the various Formulæ of the Special Preparations of

JAMES BASS & SONS, HATTON GARDEN,

they are prepared to execute orders for the same, and pledge themselves
to supply them in all their integrity.

Specimens of these Preparations have remained in the Museum of Kew Gardens during 28 years without deterioration.

ARTHUR & CO.

Manufacturing Chemists,

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Retail Price.

MIST. CAL. CHLOR. cum FERRO. ..	10 oz.	3/6
MIST. CAL. CHLOR.	10 oz.	3/6
LIN. TANN. CO.	2 oz.	3/-
LIN. IODO-GLYCEROL.	2 oz.	3/-
OL. MORRHUÆ ETHERIS	8 oz.	3/-
LOTIO PICIS CARB. CO.	16 oz.	4/6
LOTIO CAPITIS	8 oz.	3/6
EXT. FUCI VESIC. CO. LIQ. NOVUM	8 oz.	5/-

DISCOUNT 33½ per cent.

LIN. PINUS ACETICUM, 4 oz., 2/-. Wholesale, 1/8, or 18/- doz.

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(REGISTERED TRADE MARK)

**THE CURE FOR
BALDNESS.**

Retail Price 5/- per Bottle.



Messrs. F. NEWBERRY & SONS, 1 King Edward Street, London, E.C., will be happy to quote most advantageous terms for the above, and Dr. Horn's other renowned Specialities for the Hair.

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HANDSOME SHOW CARDS, &c.**

The above goods enjoy an enormous and ever-increasing sale in all parts of the World. Sole Proprietor—

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MANUFACTURERS OF

GLYCERINE

DOUBLE DISTILLED CHEMICALLY PURE, 1260 Sp.G.,

ALSO FOR

NITRO-GLYCERINE AND OTHER MANUFACTURING PURPOSES.

PACKED IN 10 AND 5 CWT. IRON DRUMS, TO BE RETURNED, AND IN 56 LBS. TINS FREE.

WHITEHALL SOAP WORKS, LEEDS.**BARTLETT HOOPER & CO.**

MANUFACTURING PHARMACISTS,

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Capsules.**Cachous.****Pastilles.****Bougies.****Pessaries.****Suppositories.****Compressed Pellets.**

PRICE LIST ON APPLICATION.

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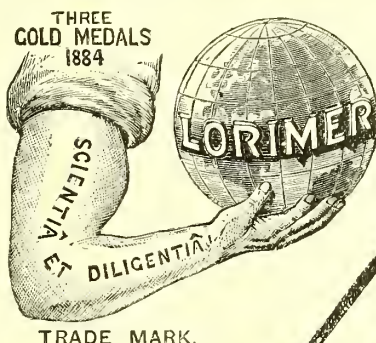
Particular attention paid to the manufacture of goods suitable for warm climates.

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Pure Cod Liver Oil.

Norwegian
Steam
Refined.

**NEVER
FREEZES.**



Clear as Crystal

Almost devoid of
TASTE,
COLOUR,
OR
SMELL.

"LIKE NEW MILK."

IN BOTTLES,
Ready for Retailing,
OVAL, ROUND, OR FLAT.

LABELS,

Artistic, and each with Chemist's
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BOTTLES IN CARTON, 6d. PER DOZEN EXTRA.

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LORIMER BRAND

Is an Oil of exceptionally high quality. Nothing
so fine in the Market, special oils not excepted. It
is put up with a distinctive label at 8/6 per dozen
bottles, and at 5/9 per gallon in Winchesters, subject to
5 to 10 per cent. discount, according to quality.

**Before putting in your Winter's Stock,
WRITE FOR SAMPLES.**

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Wholesale Druggists & Manufacturing Chemists
BRITANNIA ROW, LONDON, N.

ESTABLISHED

OVER 150 YEARS.



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Manufacturers of
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STANDARDISED
FLUID EXTRACTS

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LIQUORS FOR
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COMMERCIAL AND
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Sole Depot of
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SALICYLIC ACID
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SALICYLATES

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Manufacturing Chemists.

Seasonable Lines for Chemists.**SOLUBLE ESSENCES,**

Specially prepared for the manufacture of Cordials, &c., producing a Rich Flavour and Brightness.

CONCENTRATED FRUIT ESSENCES.**LIME FRUIT CORDIAL.**

It produces a Delicious, Wholesome, and Refreshing Beverage when mixed with either plain or Aerated Waters.

SALINE, Gran. Efferves.**MAGNES. CIT. Gran. Efferves.****RASPBERRY CITRATE, Gran. Efferves.**

In Bulk or in Bottles, with Chemist's own Name.

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Vanilline
Crystals
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for Perfume is

THE RIO
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From the British
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SHAPES.

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For exquisite fragrance the following are unequalled:—

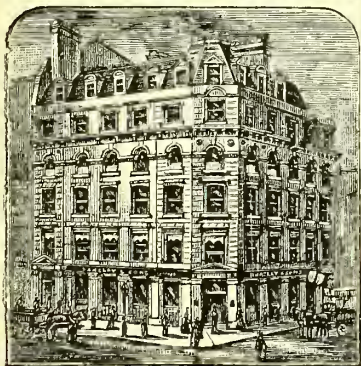
FRAGRANT BOUQUET. **OPOPONAX.** RED & WHITE ROSES.
HELIOTROPE. PRIMROSES. VIOLET. ORANGE-BLOSSOMS.

2s. 6d. per lb. Carriage Paid on 14 lbs.

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MEDICATED, Large Rolls 7/- per doz.
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All Chemists, Druggists, and Stores should Stock this new article, which is being well advertised, and, as it is a really good speciality, will shortly be in great demand. It is put up in collapsible tubes, retail price 1/-, and can be obtained from any Wholesale House.

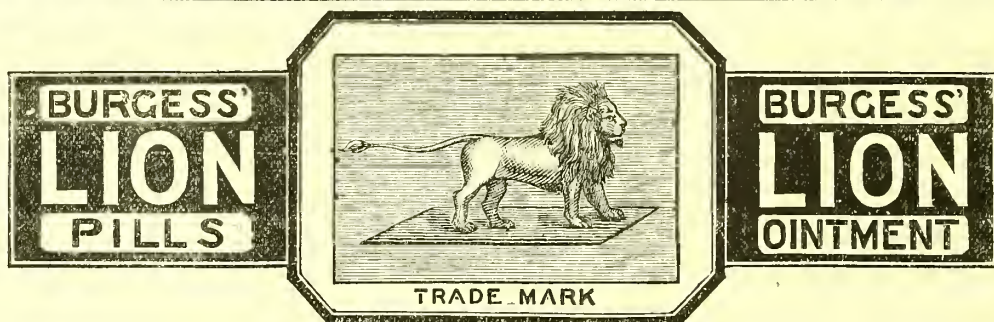
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The most saleable Patent Medicine in the market.

In Boxes 9d., 1s. 1d., and 2s. 9d. each.

HOME RETAILERS desirous of exhibiting Iron Tablets, Showcards, or Dummies, and wishful to have a good supply of Handbills, Beecham's Oracles, Music, &c., are requested to notify their requirements to the Proprietor,

THOMAS BEECHAM, St. Helens, LANCASHIRE.



The above are now supplied ONLY from 59 Gray's Inn Road, W.C., through the Wholesale Houses.

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Another CHEMIST writes:—

"Your 'Star' Preparations, especially the Suppositories, Bougies, and Kola Coca, give very great satisfaction. The demand, although now fairly strong, promises to increase largely, as two of our local doctors widely recommend them."

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FULL PARTICULARS & TERMS ON APPLICATION.

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FOR CHILDREN TEETHING.

Greatly facilitates the process of Teething, by softening the Gums, reducing all Inflammation; will allay ALL PAIN and spasmodic action, and is

SURE TO REGULATE THE BOWELS.


Depend upon it, Mothers, it will give rest to yourselves and

RELIEF & HEALTH TO YOUR INFANTS.

Mrs. WINSLOW'S SOOTHING SYRUP

Has been used for over Fifty Years by millions of Mothers for their children while Teething with perfect success. It soothes the child, softens the gums, allays all pain, cures wind colic, and is the best remedy for diarrhoea


BROWN'S BRONCHIAL TROCHES

 CURE COUGH, COLD, HOARSENESS, AND INFLUENZA. CURE ANY IRRITATION OR SORENESS OF THE THROAT. RELIEVE THE HACKING COUGH IN CONSUMPTION. RELIEVE BRONCHITIS, ASTHMA, AND CATARRH. CLEAR AND GIVE STRENGTH TO THE VOICE OF SINGERS, AND ARE INDISPENSABLE TO PUBLIC SPEAKERS. SOOTHING AND SIMPLE, CHILDREN CAN USE THEM, AS THEY ASSIST EXPECTORATION AND RELIEVE HOARSENESS.

NOTICE. — Brown's Bronchial Troches are guaranteed to contain no Opium or other Poison.

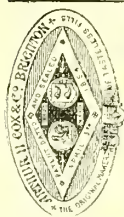
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THE MEXICAN HAIR RENEWER

 Prevents the Hair from Falling Off. Restores Grey or White Hair to its ORIGINAL COLOUR. Being delicately perfumed, it leaves no unpleasant odour. IS NOT a Dye, and therefore does not stain the skin, or even white linen. Should be in every house where a HAIR RENEWER is needed.

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ARTHUR H. COX & CO.,

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"The Original Makers of Tasteless Pills."

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QUOTATIONS
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POISONING.

To Avoid Poisoning
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the Mawson Filter.

The Mawson Filter Co., Newcastle-on-Tyne, and all Wholesale Houses.

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ARL SCHMIDT, WUNSIEDEL,
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LARGEST DEALER IN

MEDICINAL HERBS OF ALL KINDS.

You buy from FIRST HAND and in GENUINE quality.

ICELAND MOSS, ERGOT OF RYE, ARNICA FLOWERS,
LUPULIN, CHAMOMILES, UVÆ URSI (SUMACH),
PEPPERMINT, ACONITE, COLCHICUM, TORMENTILLA,
CALAMUS, HEPATICA, SABINE, &c., &c., &c.

ASK FOR PRICES AND SAMPLES.

NEPENTHE.

THE SAFEST AND BEST PREPARATION OF OPIUM.

PRODUCES NEITHER HEADACHE, SICKNESS, NOR CONSTIPATION.

PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as THE hypnotic and sedative of excellence. "Nepenthe" is registered under the Trade Marks Act, and is our sole property. No other preparation should be substituted when Nepenthe is ordered in a prescription.

Sent out in bottles bearing a label in white letters upon a green ground. We prepare also Double Strength Nepenthe, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

PRICES AND TERMS ON APPLICATION.

FERRIS & CO., WHOLESALE AND EXPORT DRUGGISTS, BRISTOL.

SARG'S ORIGINAL BEEHIVE BRAND.

Sarg's GLYCERINE

CERESINE WAX.



CERESINE WAX.

Sarg's GLYCERINE

WHITE, NATURAL, YELLOW, & ORANGE. STOCK KEPT IN LONDON OF 15 DIFFERENT KINDS.

Supplied in square blocks, each wrapped in paper and packed in cases of 1 cwt. each.

None Genuine unless Cases, Wrappers, and Blocks are branded both with Maker's Name, "SARG," and the "BEEHIVE" Trade Mark.

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TINGTURES, ETHERS, LINIMENTS, AND SPIRITUOUS PREPARATIONS

FROM ABSOLUTELY DUTY-FREE SPIRIT.

PLEASE NOTE, that all my Tinctures and Preparations are manufactured strictly in accordance with the British Pharmacopœia, and that only the purest Spirit and Drugs are employed.

Iodoform (absolute).

Iodine Resublimed.

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Sole Agent of the **TURKESTAN SANTONINE WORKS.**

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WORKS. HAMBURG—Uhlenhorst (Inland), Canalstr. 46/48.
„ Kl. Grasbrook (Free Port), Vogelreth, 8.

DUSSEK BROS. & CO.'S SOLUBLE SANITARY FLUID (MILKY), CARBOLIC ACIDS & POWDERS

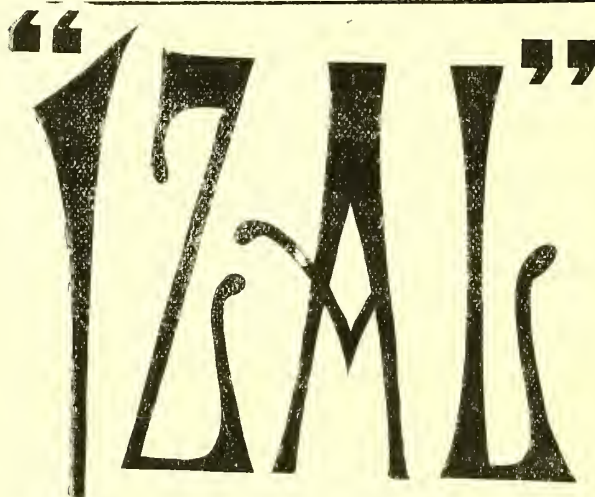
Of all strengths, in various packages for the Trade and for Export.

Also Sheep Dip, Tar and Rosin Products, Dubbin, Greases, Creosote
Brunswick Black, &c.

DUSSEK'S WHARF, VERNEY ROAD, S.E.

TELEPHONE No. 4833.

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"IZAL" IS THE NEW
**NON-POISONOUS
DISINFECTANT,**

AND IS NOW SUPPLIED BY THE

CHIEF WHOLESALE HOUSES.

Show Cards, Pamphlets, and Printed
matter, and any information the
Trade may require, can be obtained
on application to

ALLEN & HANBURY'S, BETHNAL GREEN, LONDON,

Who are the Sole Bottling Agents for the Manufacturers.

MACKEY, MACKEY & CO.'S

EUCALYPTOL DISINFECTANTS

MEDALS—Cape Town, 1877; Brighton, 1881; Cork, 1883;
Dublin, 1884; International Inventions Exhibition, 1885.
GOLD MEDAL—International Health Exhibition, 1884.

EUCALYPTOL ESSENCE, for internal use in Bronchitis,
Influenza, &c. In bottles 2/- each. Spray 2/- extra.

EUCALYPTOL DISINFECTING FLUID, for Drains, Sick-
rooms, &c. In 1/- and 2/- bottles. In 1-gallon cans, cans included,
at 5/- per gallon.

EUCALYPTOL DISINFECTING POWDER, for Sprinkling
about Sick-rooms, &c. In 1/- tins. In 1/- cwt., 1/2-cwt., and 1-cwt.
packages, packages extra, at 10/6 per cwt.

EUCALYPTOL CLEANSING FLUID, for Laundry Use.
In 1/- and 2/- bottles. In 1-gallon cans, cans included, at 5/- per gallon.

EUCALYPTOL CLEANSING POWDER, for Cleaning
Stairs, Floors, Benches, &c., no soap or soda being required. In 1/- tins.
In 1/- cwt., 1/2-cwt., and 1-cwt. packages, at 18/- per cwt. Packages extra.

EUCALYPTOL & PINE WOOD OZONISER. In 1/- tins.

KRESYLINE DISINFECTING FLUID (Soluble Creasote).
In 6d., 1/-, and 2/- bottles. In 1-gal. cans, cans included, at 4/- per gal.

CARBOLIC ACID (Black), for Sewage Disinfection.

CARBOLIC ACID No. 5 (Light Brown). In 1-gallon cans,
cans included. 4/- per gallon.

CARBOLIC POWDER 15%. In 1/- tins. In 1/4-cwt., 1/2-cwt.,
and 1-cwt. packages, packages extra, at 6/6 per cwt.

SPECIAL QUOTATIONS FOR QUANTITY.

MACKEY, MACKEY & CO.

1 & 2 BOUVERIE STREET, FLEET ST., E.C.

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A combination of Camphor, Eucalyptus, and
Coal Tar. A Powerful Disinfectant, Deodorizer,
Insect Destroyer, and Air Purifier.

CAMPHORTAR

THE CHEAPEST DISINFECTANT BEFORE THE PUBLIC.

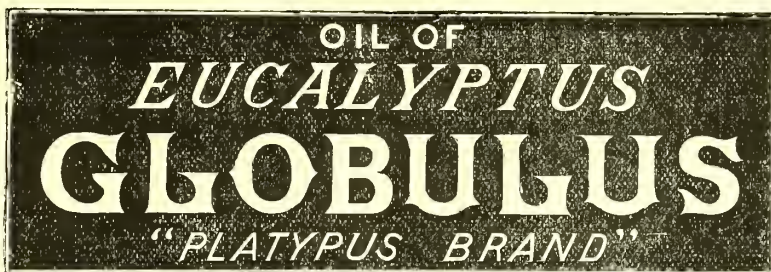
It is most elegantly and attractively packed in the form of
Maltese Crosses wrapped in Gelatine, and commands a ready
sale. Camphortar fills the sick room with a pleasant odour,
and destroys disease germs in the air. Camphortar is equally
destructive to Moths and other insects. Camphortar is used
as a protection against Smallpox, Influenza, Fever, Epidemics,
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Co., Bourne, Johnson & Latimer. Liverpool: Ayrton & Saunders, Evans,
Sons & Co. Manchester: Woolley, Sons & Co., Oldfield, Pattinson & Co.,
Heath Bros. Leeds: Simcock. Leicester: Howard Lloyd & Co.

MANUFACTURED ONLY BY

W. C. HEBDEN, HALIFAX, YORKSHIRE.



HELBING'S ANALYSIS.—Specific Gravity, 0.9160 at 15° C. Contains 41.4 per cent. Crystallisable Eucalyptol. Free from Phellandrene, and from irritating constituents.

IN TASTE, AROMA, AND THERAPEUTIC VALUE

THE FINEST OIL KNOWN.

OIL OF EUCALYPTUS "RISDONIA"

A BEAUTIFULLY SCENTED OIL.

30-lb. TINS. CASES OF 2 and 4 TINS. (Contracts at Special Prices.)

TO BE OBTAINED OF ALL WHOLESALE DRUGGISTS.

APPLY FOR SAMPLES TO THE

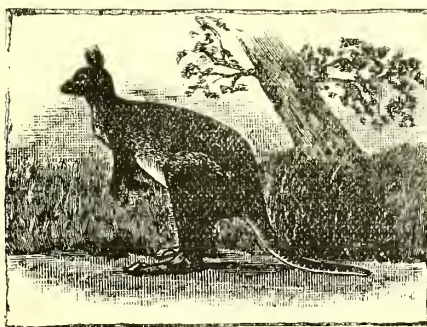
TASMANIAN EUCALYPTUS OIL CO.,

138 LEADENHALL STREET, LONDON. E.C., and HOBART, TASMANIA.

KANGAROO EUCALYPTUS OIL

25-lb. Tins.

KANGAROO



TRADE MARK.

25-lb. Tins.

BRAND.

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public.
To be obtained of your Wholesale Druggist.

SOLE CONSIGNEES—LAUGHLAND, MACKAY & BAKER, 60 Lime St., LONDON.

COLONIAL ADDRESS—A. M. BICKFORD & SONS, WHOLESALE DRUGGISTS, 46 CURRIE STREET, ADELAIDE.

JEYES' FLUID

THE NON-POISONOUS DISINFECTANT.

A TRUE GERMICIDE & DEODORISER,

Somewhat less refined than **CREOLIN**, the virtues of which are

RECOGNISED BY MEDICAL AUTHORITIES ALL OVER THE WORLD.

Jeyes' Fluid and its Preparations

SHOULD BE RECOMMENDED BY THE CHEMIST EVERYWHERE WHO DESIRES TO SUPPLY ONLY RELIABLE ARTICLES.

PRICE LIST

(ABBREVIATED).

Jeyes' Fluid.

Retail Prices		Trade Prices
s. d.		s. d.
0 6	.. Sixpenny Bottles (bottles included) ..	4 0 per doz.
1 0	.. Shilling ..	7 0
3 6	.. 1-gall. Iron Drums (drums included) ..	2 6 each
6 0	.. 1-gall. Drums ..	4 6
11 6	.. 2-gall. ..	8 6
28 6	.. 5-gall. ..	20 0
55 0	.. 10-gall. ..	38 6
Per gall.		
5 0	.. 20 & 40 gallon Casks (casks free, not returnable) ..	3 6 per gall.
1 1½	.. UNIVERSAL PERFECT PURIFIER (in bottles) ..	8 6 per doz.

Sanitary Powder.

1 0	each Canisters, in boxes of 1, 2, or 3 doz. ..	7 0 per doz.
0 6	.. ..	4 0

(Also in Casks and Bags.)

Disinfectant (Brown) Soap or Household (White) Soap.

No. 1 QUALITY.—In 1-lb. Bars, papered.)

In 1-cwt. Boxes	31 0 per cwt.
--------------------	----	---------------

(Also in Small Packages.)

No. 2 QUALITY.

In 1-cwt. Boxes	25 0 per cwt.
--------------------	----	---------------

(Also in Small Packages.)

In 3-lb. Bars, 2s. per cwt. less.

Triple Milled Toilet Soaps.

Elegant Tablets for the Toilet, of finest quality, containing the Antiseptic Properties of "Jeyes' Fluid."

Retail Prices		Trade Prices
s. d.		s. d.
Per box		
1 6	.. "Perfect Purifier," 6 Tablets ..	12 0 per doz.
1 6	.. "Coal Tar," 6 Tablets ..	12 0
2 0	.. "Old Brown Windsor," 12 square Tablets ..	18 0
0 6	.. "Special Line," 3 Tablets ..	4 6
2 6	.. "Toilet" (Scented), 6 Tablets ..	21 0
2 6	.. "Sublime Toilet" (Unscented), 6 Tablets ..	21 0
2 0	.. "Boudoir Tablets" (Perfumed), 3 Tablets ..	16 0
5 0	.. "Transparent Complexion," 12 Tablets ..	36 0
1 0	.. "Transparent Soap," 3 Tablets ..	8 0

N.B.—The first three varieties supplied also in 7-lb. deal Boxes. Customers' Names stamped on Tablets if sufficient quantity ordered.

Toilet Preparations.

Each			
1 0	Shaving Stick, in Cardboard Box ..	8 0 per doz.	
6 0	.. Tooth Powder, in 1-lb. Bottles ..	48 0	
1 0	.. .. Metal Box ..	7 0	
2 0	.. Dentifrice Water, in Bottles, with Sprinkler ..	15 0	
1 0	.. Lano-creolin, 5% Antiseptic, in Tubes ..	9 0	
3 0	.. .. " .. Large Tubes ..	24 0	
6 0	.. .. " .. 1-lb. Jars ..	48 0	
1 6	.. Antiseptic Ointment, 10% Antiseptic, in China Pot ..	12 0	
0 9	.. .. " 20% Antiseptic, in Metal Box ..	6 0	
3 6	.. Spray Diffuser, in Box complete ..	30 0	

Sheep Dip, Wood Preserver, and other Agricultural Preparations.

TERMS, 2½ PER CENT. DISCOUNT AT ONE MONTH.

All Goods delivered Free in London. For the Country, Free at any London Railway Station or Wharf.

FULL PRICE LIST ON APPLICATION.

ALSO

A NEW MEDICAL PAMPHLET,

With Recent Opinions of English Medical Men, free on request.

JEYES' SANITARY COMPOUNDS CO., Ltd.

43 CANNON STREET, LONDON, E.C.

PETROLEUM JELLY

WHITE, RED AND YELLOW

CONFORMS TO ALL

BEST AND PUREST

REQUIREMENTS OF B.P.

AND PRONOUNCED BY THE MEDICAL PROFESSION TO BE UNSURPASSED.

Extract from Analytical Report of Dr. S. Rideal, F.C.S., F.I.C., F.G.S.

"Practically tasteless and free from smell, contained no fat or resin, * * * carefully manufactured."

SNOWDON, SONS & CO., MILLWALL, LONDON, E.

NEW SOAPS

MANUFACTURED BY
F. C. CALVERT & CO.,
MANCHESTER.

Good Value, Easily Sold, and Price not named on Tablets or Boxes.

Coal Tar Soap, Pine Soap, Carbolic Soap, Carbolic and Sulphur Soap.

Paper-wrapped Tablets, averaging about 4 to the pound.

1 dozen boxes, each 1s. 8d. } Subject to Trade Discount.
3 " " 4s. 6d. }

* * * Order above as Calvert's *HYGIENIC Brand*.

FULLER'S EARTH SOAP, PUMICE SOAP, and PETROFENIC SOAP (for the Hair).

Neat paper-wrapped Tablets, averaging about 24 oz. each. 1 dozen boxes, each 1s. 3d., less Trade Discount.

* * * Order above as *CALVERT'S*.

PETROLINA

The Best and Most Reliable Paraffinum Mollé.

PRICES MUCH REDUCED.

Sold in casks of 3 cwt., kegs of 1 cwt., 56 lbs., and 28 lbs., and in tins of 14 lbs., 5 lbs., and 1 lb.

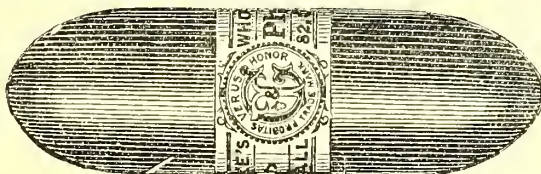
Samples and Prices from any Wholesale Druggist, or, if not so procurable, write direct to the

BINGHAMTON OIL REFINING CO.

London Agency—3 COLEMAN STREET, E.C.

WALKER, TROKE & CO.

WHOLESALE DRUGGISTS,
5 Bath Street, City Road,
LONDON, E.C.



SOLE MAKERS OF
GABRIEL & TROKE'S
GELATINE CAPSULED
HORSEBALLS.

Alterative, Condition, Cordial, Cough,
Diuretic, Fever, Physic, Worm, Quinine
Tonic Balls (Registered 81,291).

QUOTATIONS & SAMPLES FREE ON APPLICATION.

THE BEST IN THE MARKET. OF ALL WHOLESALE HOUSES.

HERMETICALLY SEALED.

THE PATENT "GRIP" FLY PAPER

No Folded Edges.

GUM CANNOT EXUDE.

Two Sizes, 1d. & 1d.

Samples and Prices from **CHRISTY STRONG, READING.**

ORANGE WINE

(VIN. AURANT, P.B.).

Specially brewed for Quinine Wine. Does not deposit, will keep good in any climate. In casks, 13 gallons to 140 gallons; small casks, 3s. 9d. per gallon, carriage allowed if paid within three months. In wine-bottles (not less than 3 doz.), at 9s. per doz. bottles included. Casks and cases extra, and returnable.

Sample on application.

Special quotations to large buyers.

DURRANT & CO., Railway St., HERTFORD.

FLUID SHEEP DIP.

Strength and purity unsurpassed. Mixes well in the hardest water. Will not stain the wool. Sample and quotation on application. Special terms to large consumers.

CARBOLIC & OTHER DISINFECTING FLUIDS & POWDERS.

FLETCHER BROS. & CO., Government Contractors, GRIMSBY.

BLAUD'S PILLS (Best Quality, Soluble Coating).

10-gross Tins, carriage paid, for 4/6. Cash with order.

7-lb Tins (56 gross), carriage paid, for 21/-. Cash with order.

COMP. SULPH. LOZ. (Garrod's Formula) & TABLETS.

4 lbs., carriage paid, for 4/-. Cash with order.

7 lbs., carriage paid, for 6/6. Cash with order.

SPECIAL QUOTATIONS FOR LARGE QUANTITIES.

JAMES N. DAVIDSON & GRAY, CHEMISTS, DUNDEE.

COFFEE.

THE "ORIGINAL CANISTER" & ROASTED COFFEES

These Coffees have been before the Public for nearly 50 years, and are the very best of their kind.

WHITE, FAIRCHILD & CO., 30 Gt. Tower St., E.C.

ESTABLISHED 1847. AGENTS WANTED.

BLAIR'S GOUT & RHEUMATIC PILLS

Cure Gout, Rheumatism, Sciatica, Lumbago, Neuralgia.

The Excruciating Pain is quickly relieved, and cured in a few days, by these celebrated Pills, well known as the Great Remedy for the above Complaints. NO POISONOUS INGREDIENTS.



E. H. THIELLAY'S (Registered 1867)

EAU F. JOUVENCE, GOLDEN.

Producing Flaxen Golden Hair.

Gold Medal, PARIS, 1867. PHILADELPHIA, 1876.

This is a very superior article. In Bottles at 3/6, 6/6, & 10/-

All Wholesale Houses, or direct from

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Parfumeur-Chimiste, Amersham Park, New Cross, LONDON S.E. (SHOW ROOMS AT CHARING CROSS HOTEL.)

CINCHONA BARK & CRUDE DRUGS.

SPECIALITIES OF

FREDK. GRAF,

DRUG MERCHANT,

65 FENCHURCH STREET, LONDON, E.C.

PRICES AND SAMPLES ON APPLICATION

S.V.R. In 40-gallon returnable iron casks, pure tinned, with screw bungs, interchangeable brass taps and spanners for opening. Farina, Dextrine, Glucose, Alcohol absolut., Fusel Oil, Pear Oil, Lime-Soda-Lead-Acetates, Verdigris, Acetic Acid, Wood Naphtha, Charcoal, Ammonia Liquid 880-900, anhydrous Sodium Sulphide, Bromides, Iodides, Chloralhydrate, Boracic Acid, Sulphate of Copper, Permanganate of Potash, Oil Caryophyll., Mentb. Pip., Pini, Juniperi.

HUGO LORENZ, 7, 8 Idol Lane, LONDON, E.C.

See also page 114, March 18 issue.

PRECIPITATED CHALK, WHITEST PUREST.

CHEAPEST SELLERS IN THE MARKET.

ALSO CHEMICALS, DRUGS, AND OILS.

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AUG. LEVERMORE & CO., 8 LIME STREET, LONDON, E.C.

OXONIA

The New Lotion for Rodent Ulcer, Cancer of Tongue, Lips, Lupus, Ringworm, Varicose Veins, &c.

Retail, 2/6 per Bottle. Trade, 23/- per dozen, subject.

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SCAMMONY, BALLS, GUM TRAGACANTH, MASTIC, ASPHALTUM, ETC.

SOLE AGENTS FOR U.K.:

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ARTHUR A. BARRETT, MESSINA, Pharmaceutical Chemist,

Not in connection with any other Barrett in Messina.

Absolutely Pure Essence of Lemon.

" " " Sweet and Bitter Orange.

" " " Bergamot.

SPECIALITÉ:—CONCENTRATED OIL OF LEMON.

Thirty times the Strength of ordinary Essence.

Correspondence invited. No Agents. Telegrams:—"Carley Messina."

EVERY CHEMIST SHOULD STOCK

HEALD'S DOG MEDICINES.

They command a ready sale everywhere.

Address—HEALD, BURNHAM, BUCKS.

NESS & COMPANY, DARLINGTON.

Old-established Manufacturers and Exporters of Insecticidal, Disinfectant, and Deodorising Preparations (Three Gold Medals for Excellence).

Will send to any address Particulars and Samples of their Powerful

SHEEP DIPS AND DISINFECTANTS.

World's Fair, Chicago, Stand 293. British Section, Manufactures Building.

IT WILL COST NOTHING

Our Export List mailed free to Buyers abroad.

FLETCHER, FLETCHER & STEVENSON,
21 MINCING LANE,
LONDON, E.C.

FREDK. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C. [1]

SPECIALITIES: Glycerine—Gum Arabic—Gum Tragacanth—Pure Beeswax—Honey.

DENTISTRY.

First-class Mechanical work undertaken for the Profession at very low charges. Satisfaction guaranteed.

PRICE LISTS FREE.

A. J. BROWNING, 104 NEWLAND, LINCOLN.

FIRST EXTRACT**LEMON OIL,**

Absolutely pure. Nothing finer imported.

C.i.f. Hull, London, or Liverpool, delivered as required up to December, 1893. Special quotations for contracts up to December, 1894.

MARK LEWIS, 23 Old Corn Exchange, MANCHESTER, and in LIVERPOOL and LONDON.

DIRECT AGENT FOR LARGEST CONTINENTAL HOUSES.

ARE WE IN IT FOR CITRATE OF MAGNESIA?

JUDGE FOR YOURSELVES BY ASKING FOR QUOTATIONS FROM

DUNCAN, FULLER & CO., 150 MINORIES, E.C.

CHOLERA ! ! ! !

ESSENCE AND PILULES OF

PER **3/6** DOZ.

CAMPHOR

(DR. RUBINI).

ONE SHILLING SIZE.

Order Immediately from **WATSON & WATES**, 93 Leadenhall Street, LONDON, E.C.

THE SURGEONS' LINT,

V.B. QUALITY.

The superior quality of Newsome's Absorbent Surgeons' Lint is universally admitted. The V.B. quality is quite pure and of great superficial area and exquisite softness. The C, D, E, and F. qualities are equally pure and absorbent; E. is stronger in fabric.

NEWSOME'S BLEACHED ROLLED BANDAGES, 3 in., 2½ in., 2 in. Also **SURGICAL ABSORBENT OPEN BANDAGES**.

Specially Bleached & Grey Carded Cotton Wools, Absorbent & Bleached & Grey Waddings; also Sheet Waddings, Tow, &c.

THE TRADE SUPPLIED THROUGH THE LONDON AND PROVINCIAL WHOLESALE HOUSES, OR FROM

C. NEWSOME, MANUFACTURER, BEEHIVE MILLS, ANCOATS, **MANCHESTER.**

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CRAWSHAW'S DYES

Specially Manufactured for Home Use.

ALL COLOURS, 1d., 3d., & 6d. EACH.

For twenty years these dyes have kept the lead, care having been taken in their Manufacture, and nothing but Dyes of the very finest quality have been sent out. The consequence is that customers once buying are satisfied, find out their usefulness, and come again. Chemists who have been wise enough to keep up stock of Colours find a regular and steady Sale for them, from January to December.

SUPPLIED BY ALL THE WHOLESALE HOUSES.

E. CRAWSHAW & CO. 80 FANN ST
ALDERSGATE ST. LONDON. E.C.

THE

SUSPENSORY BANDAGE

TO RECOMMEND IS THE

“SYRACUSE,”

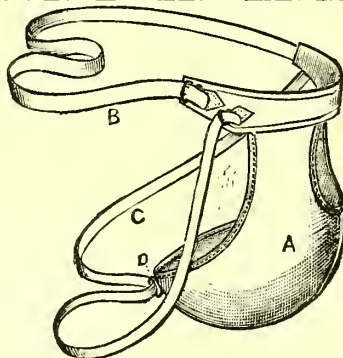
With Self-Adjusting Loop at Back of Pouch.
(PATENTED IN ENGLAND.)

**HAS THE LARGEST SALE
OF ANY SUSPENSORY BANDAGE
IN THE STATES.**

3 SIZES—Large, Medium, and Small.

Made in Seven Qualities, to suit all
Markets.

Each Bandage is carded separately, with
Printed Guarantee.



Each Bandage bears a Guarantee
to give satisfaction to wearer, or
money returned at our expense.

COTTON POUCHES.

Nos.	10	16	21
	6/6	12/	18/ per doz.

SILK POUCHES.

Nos.	26	31	34	36
	24/	30/	48/	72/ per doz.

We call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists who require a first-rate Bandage, and who wish to give satisfaction to their Customers, to hold stock, which will enable them to supply our Bandages when asked for.

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the

WELLS MANUFACTURING CO. (H. C. Quelch), LUDGATE SQUARE, LONDON, E.C.

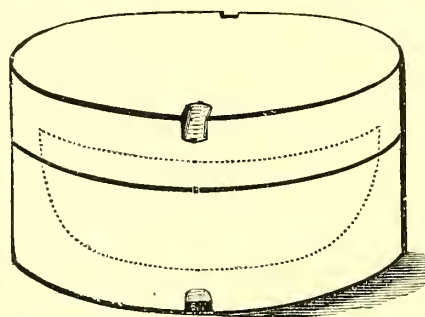
WILLIAM TOOGOOD.

TOOGOOD'S

IMPROVED PATENT

EARTHENWARE COVERED POTS

Are claimed to be the most
perfect and convenient yet offered to
the Trade.



Owing to the increasing demand
for our Patent Pots, we have in-
troduced a Special *THIN* Series
for Dispensing.

These Pots are beautifully
glazed and finished, and, being
very light, are specially adapted
for sending by post.

ORDINARY THICKNESS—											
1 dr.	2 dr.	1/2	3/4	1	1 1/4	2	3	4	6	8 ounces.	
1/6	1/6	1/6	1/8	1/10	2/-	2/3	2/10	3/6	4/6	5/6	per doz.
THIN FOR DISPENSING—											
1/7	1/9	1/2	1 1/2	2	2 1/2	3	4	6	8 ounces.		
			2/2	2/5	3/-	4/-	5/-	6/-	8/-	per doz.	

TOOGOOD'S BATHING CAPS. Write for New Season's List.

TOOGOOD'S SPONGE BAGS. Write for New Season's List.

TOOGOOD'S FLESH GLOVES. Write for New Season's List.

TOOGOOD'S FEEDING BOTTLES. Write for Special List.

BURLINGTON BUILDINGS, HEDDON ST., REGENT STREET, LONDON, W.

WORTH YOUR WHILE TO READ THIS.

JUST A
WORD
WITH

YOU Bound to Move TO OUR NEW PREMISES

13, Clerkenwell Road, E.C.

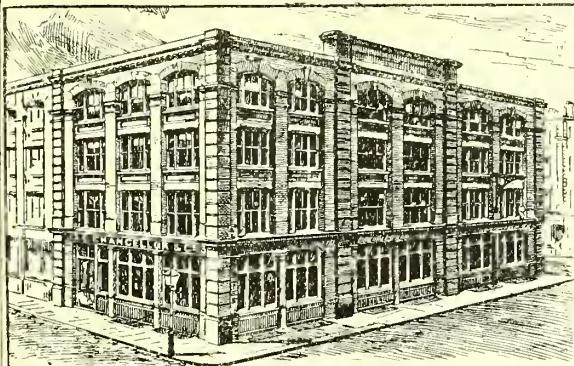
Dear Sir,

We beg to ask your notice of the following
(1) Our business is that of agents, not manufacturers
(2) Owing to our success in introducing **RISEING SUN** Stove Polish, the first article we offered to the public, many other manufacturers have since asked us to place their products on the market.
(3) From the first we have determined to handle nothing that can in any way injure the position we have established, or shake the confidence of the trade or public in our specialities.
(4) For this reason we always, before introducing any new article, first have it carefully tested against the best of its competitors, and only take it up after becoming convinced of its superiority over all others of its class.
(5) Not being confined to the products of any one factory, we are thus in a position to select the best, and only the best articles of their kind, and we have every confidence that a trial of any or all of those named in the following pages will convince you that introducing and pushing them amongst your customers will be satisfactory to the man and you alike, especially as a good profit is secured to you by our anti-cutting system (see pages 3 & 4).
Awaiting your kind favour which shall have our prompt attention.

Yours obediently
C. Chancellor & Co.

Above is page 1 of our
NEW PRICE LIST.

Post Free on application.



13, CLERKENWELL ROAD, E.C.

BECAUSE THE PUBLIC like our Goods best, find them best
THE TRADE worth pushing, knowing that the PROFIT, like the QUALITY, is not only GOOD but also PERMANENT.
SO THAT our trade has gone up by **LEAPS** and **BOUNDS**.
EVERY DAY bringing us **FRESH** CUSTOMERS and **INCREASING** OLD ACCOUNTS.

HAVE YOU tried them? **IF NOT, DO!**

RISEING SUN Stove Polish

RISEIN' SUN Metal Polish

MACK'S Double Starch

Chancellor's PLATE POWDER

Splendid Profit
For the Trade.

Splendid Value
For the Public.

Complete Satisfaction
For you and your customers alike.

NO CUTTING ALLOWED.

IF YOU HAVEN'T TRIED THEM.

DO !!!

IF YOU HAVE, PUSH THEM.

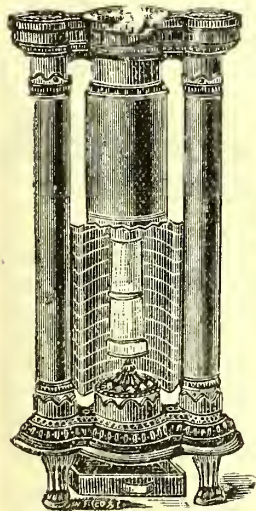
TO CHEMISTS AND DRUGGISTS.

AGENTS WANTED FOR THE SALE OF

"THE SYPHON" (REGISTERED TITLE) **HYGIENIC CONDENSING GAS HEATING-STOVES**
(CLARK'S PATENT).

A Necessary for all Invalids. A Comfort to Everybody.

NO FLUE REQUIRED. FREE FROM SMELL OR SMOKE.



All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.

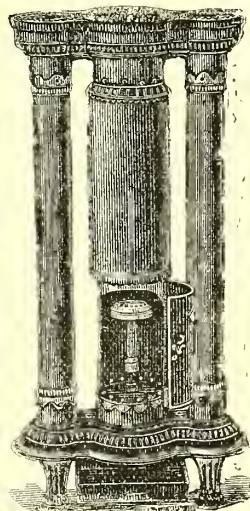
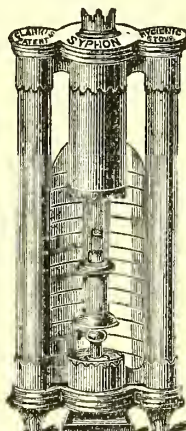
For use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Schools, Shops, &c.



They give a Pure, Equable, and Agreeable Heat, which can be graduated and sustained at the will of the user.

Specially suitable for patients suffering from Bronchial affections, as a moist atmosphere is obtainable when required.

For Terms, Particulars, and Prices, apply to

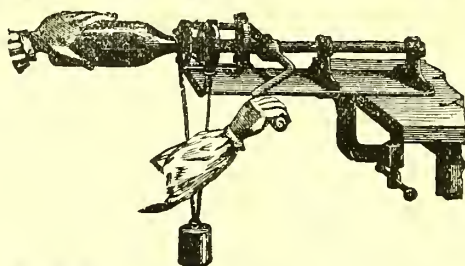


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Telegraphic Address—"SYPHON STOVES LONDON." Wholesale Agents—Messrs. MAW, SON & THOMPSON, Aldersgate Street, London, E.C.

NEW CAPSULING MACHINE

The only Machine
which leaves no crease
or pleat on the
Capsule.



Can be fixed to any
Counter.
A single pull of the lever
is sufficient
to fix the Capsule.

Patentee—**C. MELIN.** 37 Crutched Friars, LONDON. E.C.

GLASS BOTTLES

OF EVERY DESCRIPTION.

Revised Price List on Application.

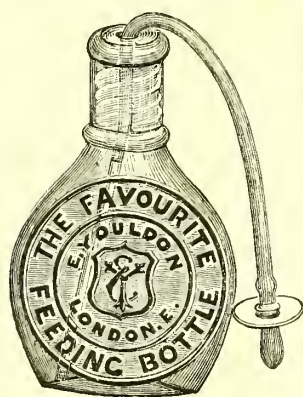
FEEDING BOTTLES AT LOW RATES.

Write for Prices of any kind of Bottle required to

E. YOULDON,

East London Glass Bottle Warehouse,

36, 38, & 40 GREAT GARDEN STREET, WHITECHAPEL, LONDON, E.



Telephone No. 1365.

Telegraphic Address—"FISH LONDON."

New Full Series of Moulds for

ROUNDED-CORNER DISPENSING FLATS

in Perfect Shape has been Prepared by us,
and THESE BOTTLES are

NOW IN STOCK

at our Last Reduced Prices.

[1]

JOHNSEN & JØRGENSEN.

GLASS BOTTLES

GOOD AND CHEAP.

From Stock
in London or
direct from
the works.

THE NEW SHAPE FLATS,
With rounded edges, or the ordinary kind, plain or graduated.

3 and 4 ounce 8/- per gross.
6 and 8 9/- "

WHITE MOULDED PHIALS.
1 oz. 1 oz. 1 1/2 oz. 2 oz.
3/6 .. 3/9 .. 4/6 .. 5/3 per gross.

PANEL BOTTLES.
2 oz. 4 oz. 6 oz. 8 oz.
7/- .. 8/- .. 9/- .. 9/- per gross.

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample Bottle sent free on application.

I. ISAACS & CO., GLASS BOTTLE MANUFACTURERS,
Francis St., Tottenham Court Road, LONDON, W.C.
Established 50 Years Bankers—London and Westminster Bank.

In Stock, upwards of 50,000,000 Articles.
Any Special Articles made to order.

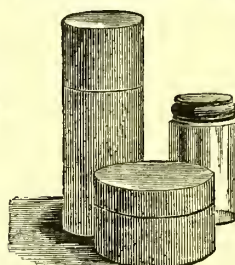
TURNED WOOD BOXES, &c.

*3018 Box for Pills or Powders.

SIZE	TO HOLD	PER GROSS.
D ..	6 Pills	1/-
A ..	12 "	1/6
C ..	24 "	2/-
H ..	36 "	3/-
V ..	Powder	8/-

REDUCED PRICES for Original
Cases.

CONTRACTS to supply Manufacturers as
required at specially low figures.



MAXIME & CO., Wood and Bone Turners,
150 OLD STREET, LONDON, E.C.
Factories and Sawmills—Gothenburg, SWEDEN, and Boulogne, FRANCE

JOHN WYETH & BROTHER

MANUFACTURING PHARMACEUTICAL CHEMISTS.

PHILADELPHIA, U.S.A. LONDON, E.C.: 30 SNOW HILL.

We were the **FIRST** to introduce to the Pharmacist and the Medical Profession, a line of

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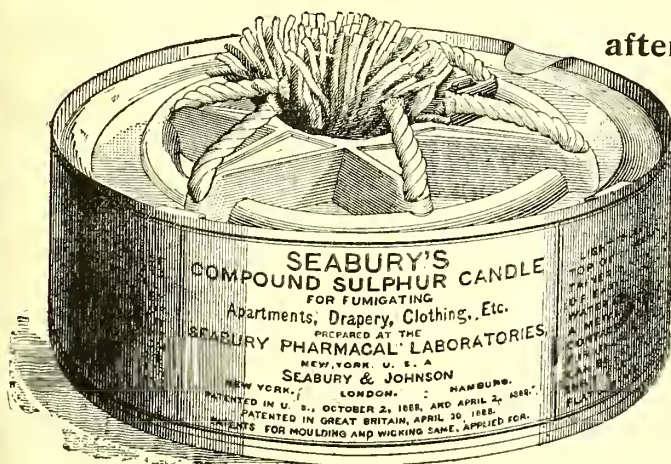
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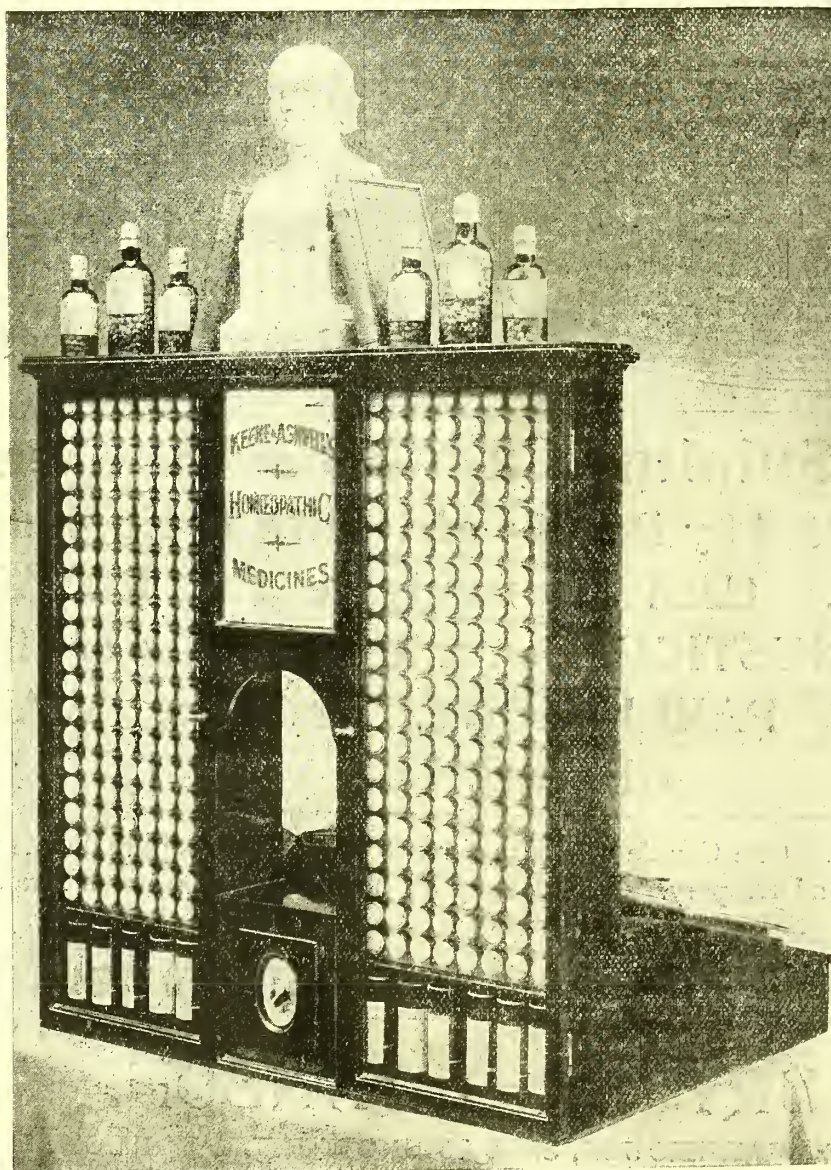
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